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PTO/SB/05 (4/98)  
Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> (Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))	Attorney Docket No.	HIM-PT009.1
	First Inventor or Application Identifier	Richard B. Himmelstein
	Title	ELECTRONIC REAL ESTATE BARTERING SYSTEM
	Express Mail Label No.	EL659870140

<b>APPLICATION ELEMENTS</b> See MPEP chapter 600 concerning utility patent application contents.	<b>ADDRESS TO:</b> Commissioner for Patents Box Patent Application Washington, DC 20231
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)	5. <input type="checkbox"/> Microfiche Computer Program (Appendix)
2. <input checked="" type="checkbox"/> Specification [Total Pages <b>68</b> ] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross References to Related Applications - Statement Regarding Fed sponsored R & D - Reference to Microfiche Appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s) - Abstract of the Disclosure	6. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. <input type="checkbox"/> Paper Copy (identical to computer copy) c. <input type="checkbox"/> Statement verifying identity of above copies
3. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets <b>42</b> ]	<b>ACCOMPANYING APPLICATION PARTS</b> 7. <input type="checkbox"/> Assignment Papers (cover sheet & document(s)) 8. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input type="checkbox"/> Power of Attorney (when there is an assignee) 9. <input type="checkbox"/> English Translation Document (if applicable) 10. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations 11. <input type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 13. <input checked="" type="checkbox"/> * Small Entity Statement(s) <input type="checkbox"/> Statement filed in prior application, Status still proper and desired (PTO/SB/09-12) 14. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. <input type="checkbox"/> Other:
4. Oath or Declaration [Total Pages <b>2</b> ] a. <input checked="" type="checkbox"/> Newly executed (original or copy) b. <input type="checkbox"/> Copy from a prior application (37 C.F.R. § 1.63(d)) (for continuation/divisional with Box 16 completed) i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).	

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16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment:  
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 Prior application information: Examiner Not Yet Known Group / Art Unit: Not Yet Known  
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Name	Volpe and Koenig, P.C.				
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Country	Telephone	Fax			

Name (Print/Type)	Gerald B. Halt, Jr., Esquire	Registration No. (Attorney/Agent)	37,633
Signature		Date	9/29/00

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Volpe and Koenig, P.C. Revision of PTO/SB/17 (12/99)

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Small Entity payments must be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12.

See 37 C.F.R. §§ 1.27 and 1.28.

**TOTAL AMOUNT OF PAYMENT (\$)** 345**Complete if Known**

Application Number	Not Yet Known
Filing Date	Not Yet Known
First Named Inventor	Richard B. Himmelstein
Examiner Name	Not Yet Known
Group / Art Unit	Not Yet Known
Attorney Docket No.	HIM-PT009.1

3760 U.S. PTO  
09/20/00

**METHOD OF PAYMENT (check one)**

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**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 690	201 345	Utility filing fee	345
106 310	206 155	Design filing fee	
107 480	207 240	Plant filing fee	
108 690	208 345	Reissue filing fee	
114 150	214 75	Provisional filing fee	

**SUBTOTAL (1) (\$)** 345**2. EXTRA CLAIM FEES**

Total Claims	Extra Claims	Fee from below	Fee Paid
1	20*	0	0
1	3**	39	0
Multiple Dependent			

\*\*or number previously paid, if greater; For Reissues, see below

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 78	202 39	Independent claims in excess of 3
104 260	204 130	Multiple dependent claim, if not paid
109 78	209 39	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

**SUBTOTAL (2) (\$)** 0**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet.	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 380	216 190	Extension for reply within second month	
117 870	217 435	Extension for reply within third month	
118 1,360	218 680	Extension for reply within fourth month	
128 1,850	228 925	Extension for reply within fifth month	
119 300	219 150	Notice of Appeal	
120 300	220 150	Filing a brief in support of an appeal	
121 260	221 130	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,210	241 605	Petition to revive - unintentional	
142 1,210	242 605	Utility issue fee (or reissue)	
143 430	243 215	Design issue fee	
144 580	244 290	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Petitions related to provisional applications	
126 240	126 240	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 690	246 345	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 690	249 345	For each additional invention to be examined (37 CFR § 1.129(b))	
Other fee (specify) _____			
Other fee (specify) _____			

\* Reduced by Basic Filing Fee Paid

**SUBTOTAL (3) (\$)** 0**SUBMITTED BY**

Name (Print/Type) Gerald B. Halt, Jr., Esquire

Registration No.  
(Attorney/Agent)

37,633

**Complete (if applicable)**

Telephone 215-568-6400

Signature

Date 9/29/00

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**STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(b))—INDEPENDENT INVENTOR**

Docket Number (Optional)  
**HIM-PT009.1**

Applicant, Patentee, or Identifier: Richard B. Himmelstein

Application or Patent No.: Not Yet Known

Filed or Issued: Not Yet Known

Title: ELECTRONIC REAL ESTATE BARTERING SYSTEM

As a below named inventor, I hereby state that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees to the Patent and Trademark Office described in:

- ☒ the specification filed herewith with title as listed above.  
☐ the application identified above.  
☐ the patent identified above.

I have not assigned, granted, conveyed, or licensed, and am under no obligation under contract or law to assign, grant, convey, or license, any rights in the invention to any person who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person had made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

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☐ Each such person, concern, or organization is listed below.

Separate statements are required from each named person, concern, or organization having rights to the invention stating their status as small entities. (37 CFR 1.27)

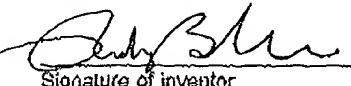
I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

Richard B. Himmelstein

NAME OF INVENTOR

NAME OF INVENTOR

NAME OF INVENTOR

  
Signature of inventor

Signature of inventor

Signature of inventor

9/20/00  
Date

Date

Date

## ELECTRONIC REAL ESTATE BARTERING SYSTEM

## BACKGROUND

5 The present invention relates to a computer-based website for bartering, exchanging or selling, (hereinafter referred to as bartering), real estate items or securities including, but not limited to, real property, stock, cash (foreign or domestic currencies), web barter dollars (defined below), Himmelstein Options (defined below), CD's, bonds, notes, Option Put, Option Call, Commodities/Futures, Annuities, Muni Bond(s), Government Bonds, Funds, Strips (Zero Coupon Treasuries), Ginnie Mae(s), Fannie Mae(s), Freddie Mac(s), UIT (Unit  
10 Investment Trust), T-bills and any future created or defined security, commodity or commodity money wherein a barter order indicating the item to barter and the desired barter item are matched by the website. Barter transactions are made which combine a barterer's barter order with a matching order or combination of orders which the barterer selects or the barterer has automatically selected by the website. All barter transactions incorporate agreements. Agreements, termed Himmelstein Options, permit barterers to agree to a future range of dates: a date after the barter transaction may occur and a date before the barter transaction must occur or the rights of ownership may expire. Himmelstein options also include other conditions or parameters in the agreement as well.

15 Automated computer systems matching buy and sell orders for trading stocks, futures and other properties are well known in the art. An example of such a system is disclosed in  
20 U.S. Patent No. 3,573,747 to Adams, et al., which discloses a system for matching buy and sell orders for fungible properties between traders. After the initial match, one embodiment of this system allows traders to negotiate other terms of the transaction while all traders are continuously appraised of the negotiation status. The system disclosed in U.S. Patent No.  
25 4,412,287 to Braddock relates to trading stock and discloses a central computer that matches buy and sell orders from a plurality of user terminals. In U.S. Patent No. 5,689,652 to Lupien, et al. a computer network with a plurality of trader terminals matches buy and sell



orders incorporating a satisfaction density profile. The density profile provides a measure for maximizing the mutual satisfaction of all traders.

Computer systems to match bids and offers are also well known in the art. The system disclosed in U.S. Patent No. 4,903,201 to Wagner matches bids and offers for future commodity contracts and detects illegal trade practices. U.S. Patent No. 5,727,165 to Ordish, et al., discloses a network system and further provides confirmation timing and notification messaging to the traders. In U.S. Patent No. 5,924,082 to Silverman, et al., a negotiated matching system matches bids and offers based on a criteria that includes "ranking" data. The ranking data is comprised of credit and risk information to facilitate the best matches with respect to risk management. Another aspect of this same system permits traders to negotiate directly with each other prior to or after an initial match is made by the system. The system of U.S. Patent No. 5,926,801 to Matsubara et al. also matches bids and offers, and in one embodiment, credit criteria is considered in the match.

Another computer system disclosed in U.S. Patent No. 5,873,071 to Ferstenberg, et al. includes an intermediary computer program and an electronic agent computer program which can operate over the Internet. The intermediary computer program mediates offers and counter-offers for financial commodities. Goals, expressed as either a set of computer rules or as an objective with constraints, are set by the participants and the electronic agent computer program generates counter-offers according to the goals in response to offers from the intermediary computer program. In one embodiment of the system, a calculated "fairness measure" is used to determine satisfaction of the participants goals.

None of these patents address a bartering, exchanging or selling system whereby an individual trader constructs a barter order by establishing trading parameters that include an item to be bartered and a desired item to be received. Additionally, since each of the prior art systems are tailored to a particular market or type of security, they are extremely limited. These systems do not permit flexibility in trading one type of security for another type, or even one type of security for real property.

## SUMMARY

The present invention is a barter system utilizing a computer system linked to a website to effectuate a tax deferred exchange for barter items including real estate property, real estate leases and all types of securities. A tax deferred exchange permits a property owner to trade one property for another without having to pay federal income tax on the transaction. Tax deferred exchanges are authorized by Section 1031 of the IRS code. This system meets the requirements of Section 1031 and other sections of the IRS code to ensure that an exchange is done properly so the tax on the transaction may be deferred.

The system is accessed directly at a website called "eBarterRealestate.com." The system assists an individual with setting up a new account, including information regarding the property they want to exchange. The information could be downloaded from real estate websites or real estate offices if an individual had previously provided the pertinent information to a real estate agent. The system allows the individual to enter information about their property, (including videos, pictures, asking price), and display various other types of information such as real estate taxes, assessment, equalization value (if applicable), appraised value etc. This information would be posted for others to look at and evaluate. If there is a "boot" (i.e. excess funds) left over, the system can hold funds in escrow, return excess funds, donate the funds to a preselected charity or allow individuals to barter for other property or a portion of an existing property.

The present invention permits bartering of items or securities including but not limited to real estate, stock, cash (foreign or domestic currencies), web barter dollars, Himmelstein Options, CD's, bonds, notes, Option Put, Option Call, Commodities/Futures, Annuities, Muni Bond(s), Government Bonds, Funds, Strips (Zero Coupon Treasuries), Ginnie Mae(s), Fannie Mae(s), Freddie Mac(s), UIT (Unit Investment Trust), T-bills and any future created or defined security, commodity or commodity money. A Himmelstein Option is an agreement to barter items or securities with specific conditions for a settlement date (i.e. rights to acquire) to occur after a specified date and before a specified date. These dates

may be the same. The before date may be indefinite. Himmelstein's Options (i.e. the portion of the barter transaction that is to be acquired) may be sold for cash or bartered (i.e. assign their rights or transfer their rights for a different security). In other words, the Himmelstein Option agreement, once acquired may be assigned without the written consent of the issuer/creator. This means that acquirer may transfer his rights to acquire the security or other item which is the subject of a Himmelstein Option to someone else.

The user, termed the barterer, creates a barter order that is posted and/or matched against a website database of other posted barter orders. To implement a barter, the barterer selects a posted barter order from a display of matching barter orders. Barter orders include minimum criteria such as an identification of items to be bartered, an identification of items desired, market value of the items to be bartered and value determined by the barterer. Criteria such as the Himmelstein Option having barter date ranges (i.e. date upon which the actual ownership of the barter items changes hands) and value ranges add to the flexibility of the system. The flexibility in timing utilizing the Himmelstein Option facilitates the ability to potentially defer adverse tax consequences and to defer the creation of taxable events.

It an object of this invention to provide a flexible barter system which allows ownership acquisition deferral and the matching of multi-order barter transactions. Other objects and advantages will become apparent after reviewing a detailed description of a presently preferred embodiment of the invention.

#### BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a diagram of a bartering system in accordance with the teachings of the present invention.

Figure 2 is a schematic diagram of the structure of an example barter database and barter order in accordance with the teachings of the present invention.

Figure 3 is a schematic diagram of a multi-order barter transaction in accordance with the teachings of the present invention.

Figures 4A-4E are flowcharts of a typical barter ordering session and barter transaction in accordance with the teachings of the present invention.

5        Figures 5A-5F are portions of screen displays illustrating the creation of a sample barter order in accordance with the teachings of the present invention.

Figure 6 is an example of a barter transaction screen in accordance with the teachings of the present invention.

10       Figures 7A-7E are schematic illustrations of several different types of barter transactions which may be implemented according to the teachings of the present invention.

Figure 8 is a schematic diagram of the components of a barter posting module in accordance with the teachings of the present invention.

15       Figures 9A and 9B are tables illustrating general and specific parameters for classes of barter items that are preferably utilized in a barter system made using a Himmelstein Option in accordance with the teachings of the present invention. Specifically, the "barter/settlement date, open/close" column in the tables is a condition or parameter included in the Himmelstein Option.

Figure 10 is a bartering system in accordance with an alternative embodiment of the present invention.

20       Figures 11AA, 11AB, 11BA and 11BB are tables illustrating general and specific parameters for classes of barter items that are preferably utilized in a barter system in accordance with the alternative embodiment.

Figure 11C is a table of parameters for a real estate transaction.

Figure 12A is an example barter database.

25       Figure 12B is an example barter order.

Figure 13 is a schematic diagram of a multi-order barter transaction in accordance with the teachings of the alternative embodiment of the present invention.

Figures 14A-14E are flowcharts of a typical barter ordering session and barter transaction in accordance with the teachings of the alternative embodiment of the present invention.

Figures 15A-15F are portions of screen displays illustrating the creation of a sample barter order in accordance with the teachings of the alternative embodiment of the present invention.

Figure 16 is an example of a barter transaction screen in accordance with the teachings of the alternative embodiment of the present invention.

Figures 17A-17D are schematic illustrations of several different types of barter transactions which may be implemented according to the teachings of the alternative embodiment of the present invention.

Figure 18 is a schematic diagram of the components of a barter posting module in accordance with the teachings of the alternative embodiment of the present invention.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The preferred embodiment of the present invention will be described with reference to the drawings where like numerals represent like elements throughout.

The Himmelstein Option is a new type of financial interest being created by the present invention. Utilizing Himmelstein Option(s) allows the present invention to create a new type of market ("virtual market"), whereby barterers may own and/or barter Himmelstein Options for Himmelstein Options, indefinitely, without having to possibly incur ordinary or capital gains taxes. Furthermore, as long as the individual who owns a Himmelstein Option or is in the possession of a Himmelstein Option does not go to settlement and "take title", the actual owner of the security defers a taxable event.

The system creates web barter dollars to further its ability to facilitate a virtual market. Web barter dollars are the system's currency with a unit (commodity dollar) which is preferably set to equal the U.S. dollar or some other standard such as foreign currency,

gold etc. The system, for example, uses web barter dollars to track an "I owe you" ("IOU") to individuals giving up a security but not simultaneously receiving a security back. Preferably, the system uses web barter dollars to supplement or balance a barter in lieu of other currencies such as the U.S. dollar. Using web barter dollars or cash simplifies the matching of barter orders where items of unequal value are traded.

When converting IOUs or web barter dollars to a different security, the system may charge a different fee based on the age of the IOUs. For instance, if the IOU is to be held longer, the system may charge a lower percentage or lower fee to convert to U.S. dollars. Further, the system may charge a different fee or a different percentage based on the relationship with a particular individual requesting the conversion. The system and barterers may barter web barter dollars for cash at different values. For example, the system may charge a fee to convert from web barter dollars to cash, but as an incentive provide extra web barter dollars for cash. Should there ever be a need to have the system redefine or modify its definition for IOUs or web barter dollars, the system reserves the right (in the Agreement(s)) and can do so. For example, the system may change IOU's or web barter dollars to system funds which are portable and permit a barterer to transfer shares of system funds to specific institutions without having to redeem shares and possibly incur a taxable event. Accordingly, those skilled in the art should recognize that the system can be configured to perform any, and all stock market, banking and financial institution functions.

Referring to Figure 1, an exemplary barter system 100 is illustrated which utilizes a computer-based website that may effectuate a tax-free exchange or tax deferred exchange for swapping barter items. Barter items are defined including, but not limited to, stock, cash (foreign or domestic currencies), web barter dollars, Himmelstein Options, CD's, bonds, notes, Option Put, Option Call, Commodities/Futures, Annuities, Muni Bond(s), Government Bonds, Funds, Strips (Zero Coupon Treasuries), Ginnie Mae(s), Fannie Mae(s), Freddie Mac(s), UIT (Unit Investment Trust), T-bills and any future created or defined security, commodity or commodity money. Bartering different categories of items is

supported by the system 100. For example, stocks can be bartered for bonds. The system 100 provides for its own "web-barter dollars" which may be accumulated or traded by barterers using the system 100 and are particularly useful in facilitating barterers where items of unequal value are traded.

5           The system 100 preferably includes a barter website 106 which is accessed via an investing company website 102, or directly via the Internet using a computer such as a personal computer 114 or a wireless hand-held computer with Internet connectivity 110. Optionally, the system 100 may be incorporated as part of an existing investing company's website.

10           In the case of access via an investing company website 102, the barterer uses a computer such as a personal computer 108, a portable computer 116 or a wireless hand-held computer with Internet capability 112 to select a "Barter" icon 103 that incorporates a link 104 to the barter website 106. Once the icon is selected, the trader's investing company account information is transferred via a link 104 to the barter website 106. In this manner,  
15           the barter website 106 is produced with all of the relevant particulars of each item owned by the individual trader. For example, in the case of bonds, the website 106 preferably includes the entity that issued bonds, amount of bonds, market value, interest date and due date data. In the case of stocks, the barter website 106 preferably includes data indicating company, number of shares, market value and whether dividends are reinvested. Using the  
20           link 104, the barter website 106 is transparent to a barterer accessing it via the investing company website 102.

          The system 100 can be further interfaced with traditional brokers so traditional brokers and clients without the resources to go directly "online" can barter in the same manner.

25           While the barter system 100 supports bartering different categories of items such as stocks, Himmelstein Options for stocks, notes, Himmelstein Options for notes, bonds, and Himmelstein Options for bonds, an online investing company hosting the "Barter" icon 103

can limit barterers to certain categories of items. For example, an investment company website that provides online stock trading may choose to limit the barter website 106 to only stock and/or Himmelstein Options for stock and/or Himmelstein Option barterers. This allows someone (a barterer) to acquire a Himmelstein Option which is, in this case, the right to own stock at a future date which allows the other barterer the ability to delay or defer the taxable event. This is accomplished by setting an appropriate filter so that only stock and/or Himmelstein Option is identified in the barter orders. Preferably, such a filter also allows use of web-barter dollars and/or cash which enables a wider range of barter orders to be matched and barter transactions to be completed.

Regardless of the items bartered, the barter website 106 comprises three main components: a barter ordering module 105, a posted barter order database module 117 and a barter matching engine 118. Optionally, the system 100 may include a separate database (not shown) of each individual's portfolio for all securities. In general, the barter ordering module 105 permits a trader, herein referred to as the barterer, to create a barter order that includes the item to be traded, the item desired and additional parameters related to the barter order.

The table set forth in Figure 9A reflects typical parameters associated with various classes of items or securities to be identified in a barter order. In each barter order, the appropriate parameters are identified for both the item to be traded and the item to be acquired so that the barter order comprises two sets of item parameters. The two sets of parameters may be quite different where the two items which are the subject of the barter order are of a different class or type.

Each portfolio item, regardless of type or classes, can be transformed into a Himmelstein Option agreement by defining a future date or range of dates for settlement using the last column in the table Figure 9A. The Himmelstein Option is posted for immediate barter, but is subject to the specific settlement date or range identified.



A Himmelstein Option permits a security to go "under agreement" with a specific future closing date, (similar to a purchase of real estate). Presently, the IRS does not treat this as a taxable event at the time of the agreement. An individual who owns a Himmelstein Option may barter it again (with the same or different terms as the original agreement) without having settlement and obtaining ownership of the underlying security. Obviously, "different terms" are limited to a subset of terms of the original Himmelstein Option agreement that was issued.

The "standard" Himmelstein Option requires that the individual acquiring the Himmelstein Option must put up the full amount of the desired security at that time, (i.e. and nothing at settlement). If the desired security is also a Himmelstein Option, providing the rights to acquire or transferring the rights meets this requirement. It should be noted that each Himmelstein option may have different future dates for settlement. The IRS may attempt to claim that this constitutes a derivative. However, if an individual is bartering away a security and barterers for a security, on future dates utilizing Himmelstein Options, they are receiving a derivative and giving away a derivative. Consequently, in most cases, these derivatives in essence, "cancel out." The system 100 may further require that the barterers agree on the value for the Himmelstein Option should the IRS consider it a derivative. Preferably, the system sets the "barter value" as the default agreed upon value.

The person who issues a Himmelstein Option or barterers an acquired Himmelstein Option chooses the future date or range of dates for settlement and value which must be accepted by the acquirer. If there was a future range of dates given for settlement, it is the choice of the person acquiring the Himmelstein Option to go to settlement within the specified range. The "standard" Himmelstein Option automatically goes to settlement on the final day should the person acquiring the Himmelstein Option not choose a date. The system 100 may charge an additional fee for the actual settlement.

When an individual creates a barter order for any security, the system 100 produces an Agreement of Barter, Exchange or Sale (i.e. terms and conditions). Barterers, in essence,

fill in the "blanks" of the Agreement of Barter, Exchange or Sale. The system 100 may also require electronic signatures to accompany the Agreement or may create a parallel Agreement for each barterer for simplicity and anonymity purposes. The Agreement is also with the system 100, providing various conditions or rights that the system 100, intermediary or designated agent(s) has with the barterer.

At settlement, title to the security or financial interest which is the subject of the Himmelstein Option is transferred. For stock, for example, settlement may require the actual transference of Stock Certificates. Preferably the traded stocks are not in paper certificate form so that a book entry of the stock transfer may be made to transfer title.

Once bartered, a Himmelstein Option cannot be canceled by its creator. Himmelstein Options may continually be bartered without being required to have settlement. Examples of a Himmelstein Option with appropriate parameters for each of nine different classes/types of items are set forth in the table of Figure 9B. Similar to Figure 9A, in Figure 9B each row shows one of the items of a barter order, i.e. an item to be bartered or an item to be acquired. A Himmelstein Option may be identified as a "to be bartered item" and actual stock may be identified as a "to be acquired item" in a given complete barter order. A Himmelstein Option may be acquired via the barter system as soon as it is posted, but the actual ownership of the financial interest which is the subject of the option is not transferred to the acquiring party until the acquiring party exercises the Himmelstein Option during the settlement period.

When the barterer creates a barter order, the system 100 creates an order number referencing the barter order. The system 100 may randomly create or code barter order numbers so only the system 100 is aware of the age of a barter order and the identity of the barterer. The posted barter order database module 116 accumulates posted barter orders and includes the software to add, delete and maintain the data in the database. The barter matching engine 118 selectively matches a barterer's barter order with posted barter orders in the database 116. Posted barter orders "matching" a barterer's order are displayed such

that the barterer can select a candidate or candidates from the displayed listing of matching posted orders. The matching process functionally operates as a filter to display posted orders matching a selected criteria. Preferably, the filter is set to match the barterer's selected item to be acquired with posted orders having the same item to be bartered. The quantity of the selected item may also be used for filtering to require a direct quantity match or a match within a quantity range. The barterer's selected item to be bartered is also a preferred criteria for the matching filter, so that postings are displayed of barter orders which seek to acquire the item selected to be bartered by the barterer. A preferred filter includes both the barterer's selected item to be bartered and selected item to be acquired. Optionally, the filter may allow both specific items of a class as well as Himmelstein Options for the specific items. Thus, where a barterer's desired item is IBM stock, posted barter orders seeking to barter away IBM stock or Himmelstein Options for IBM stock are displayed as matches.

The barter matching engine 118 is configurable to either match one "best" posted order or multiple posted orders with a barterer's order. The barter engine 118 can also be configured to use the barter website (or an entity chosen by the website) as an intermediary as explained in greater detail below.

Figure 2 illustrates a typical stock and/or Himmelstein Option for stock and/or Himmelstein Option barter transaction involving sample posted barter orders 204-224 stored in a database 216 of module 116 and a sample barterer's barter order 226. In this example, the barter order includes the stock to be bartered indicated by stock symbol 228, the quantity 230 of the stock to be bartered, the value 232 at which the barterer is willing to barter, the desired stock 234 indicated by stock symbol, the value 236 the barterer is willing to barter for the desired stock, and an "\*" indicating the ownership of the Himmelstein Option for the stock instead of ownership of the stock itself. Preferably, the settlement date(s) are displayed for all Himmelstein Options. The stock values of a barter order need not be a fixed value. For example, values identified for several of the posted barter orders 204, 208, 212, 218-224 are based on the current market price of at least one of the respective stocks.

Barterer order 226 indicates that the barterer has 45 shares 230 of Dupont stock (stock symbol DD) 228 which the barterer is willing to trade at a value of \$20 per share 232 for Aetna stock (stock symbol AET) 234 at a value of \$90 per share 236. If the matching criteria is set to match only the barterer's acquire item selection (including Himmelstein Options for the item), orders 204, 206, 208 are displayed. If the matching criteria is set to match only the barterer's barter item selection (including Himmelstein Options for the item), orders 206, 208, 216 are displayed. If the matching criteria is set to match either the barterer's barter or acquire item selection (including Himmelstein Options for the item), orders 204, 206, 208, 216 are displayed. If the matching criteria is set to match both the barterer's barter and acquire item selections (including Himmelstein Options for the item), orders 206 and 208 are displayed. An order combining orders 204 and 216 may also be displayed in that situation.

Other criteria such as market value and the other parameters identified in Figures 9A and 9B for each barter item may be displayed and used for matching. For example, where barter value is required to be matched, if the market value of Dupont stock is \$20 per share, the barter engine 118 matches the order 226 with only one of the posted barter orders from database 216 namely, with posted barter order 208 from the database 216 since this posted order 208 barter Aetna stock for Dupont stock at the same value prices.

Where an additional matching parameter is set that all of an item of a barter order must be bartered, the Himmelstein Option for all 100 Aetna shares of posted barter order 208 must be bartered. In the example, the barter matching engine 118 would then fail to match barter order 226 with any posted order unless the barter website 106 acts as an intermediary as described below. Conversely, in an embodiment where the barter orders include a minimum share barter parameter, the barter engine 118 matches barterer order 226 if the minimum share parameter of the posted barter order 208 is less than 11 shares.

Figure 3 illustrates a multi-order barter selection 300 having first 302, second 308, third 314 and fourth 320 barter orders according to the present invention. Multi-order barter

selection may be used either when no single barter order matches are found irrespective of whether single barter orders matches are found in order to find all potential available barter among the posted barter orders. In this example, the barter engine 118 cannot fulfill the first barter order 302 with a single one of the other barter orders 308, 314 or 320. The first barter order 302 barter Microsoft stock (stock symbol MSFT) 304 for RedHat stock (stock symbol RHAT) 306. None of the other posted database orders barter RHAT for MSFT, but barter order 302 can be fulfilled if intermediate barterers are matched. The barter matching engine 118 matches intermediate barterers using several methods. In one embodiment, barter matching engine 118 searches for a posted barter order having a desired stock/Himmelstein Option that matches the barterer's stock/Himmelstein Option to be traded. Since posted barter order 320 lists MSFT as the desired stock 324 and the first barter order 302 stock to be bartered is MSFT 304, the barter matching engine 118 search for the first half of the first barter 302 has been satisfied. However, the barter matching engine must find a match for the desired stock 306 for the first barter order 302 and must also find a match for the first half 322 of the third barter order, 320. Accordingly, the barter matching engine must find a transaction that satisfies the desired stock Oracle (stock symbol ORCL) 322 of the third barter order 320.

The barter matching engine 118 searches for an order that trades ORCL for RHAT in order to make a two posted order barter transaction. However, in the example, there is no posted order that trades these two stocks, so the barter matching engine 118 locates barter order 308 that trades Puma Technologies (stock symbol PUMA) 310 for ORCL 312. The barter matching engine 118 then searches for another posted barter order that trades RHAT for PUMA to find a transaction candidate. Barter order 314 meets this criteria in that RHAT 316 is traded for PUMA 318. Accordingly, barterer order 302 can be satisfied through posted barter orders 320, 308 and 314. In a preferred embodiment so as to make the multi-order transactions transparent to the barterer, barter matching engine 118 displays multi-order barterers as a single "phantom" posted barter order. The matching engine 118 creates

a transaction and displays this phantom barter order in the list of matching barter candidates. The barterer simply selects the phantom barter order to finalize the multi-order barter transaction. In these examples, it is assumed that the values and other parameters set by the barterers permit all barter orders to occur.

5 In another method for locating multi-order barterers, barter matching engine 118 begins by searching for the barterer's desired stock 306 first. Barter engine locates barter order 314 that trades RHAT 316 for PUMA 318. Continuing in this manner, the engine locates the same posted barter orders as above, but in the reverse order. In general, the engine 118 attempts to link multiple barter orders. One of ordinary skill in the art of software  
10 programming appreciates that a recursive algorithm is well suited for generation of such a linked list.

The operation of barter ordering module 105 allows the barterer to enter the barter order. In one embodiment of the present invention, the barterer selects minimum barter-  
15 order parameters such as the specific stock, quantity and value price of the stock to be bartered in addition to the desired stock and value price for the stock desired. Once these minimum parameters are selected, other parameters are set to default settings determined by barter ordering module 105. In another embodiment, order parameters have interdependencies. For example, a barterer selects a quantity of shares of a stock to be traded as 100 shares and sets the per share value price to \$15. The total value of the stock, \$1,500,  
20 is computed by the barter ordering module as the product of the quantity of shares, 100, and the per share value price, \$15. In the case where the barterer subsequently changes the total value of the stock from \$1,500 to \$2,000, the per share value price of the stock changes automatically to \$20 since the value per share must be \$20 to achieve the \$2,000 total value with the 100 shares.

25 Barter orders may be created for stock and Himmelstein Option for stock barterers as illustrated in flowcharts Figures 4A-4E and the screen displays of Figures 5A-5F where the barterer is prompted through each step of the barter order creation process. For bartering

other securities or financial interests, including Himmelstein Options, the bartering steps and screen displays are modified to preferably accommodate all of the parameters for the classes of items identified in Figures 9A-9B.

The system 100 in its most generalized configuration permits barterers of different securities, financial interests (including Himmelstein Options), or classes of items, i.e. Himmelstein Option for stocks for bonds, foreign currency for Himmelstein Option for T-bills, commodities for stocks, options for T-bills etc. The most generalized configuration of the system 100 permits a barterer to select any item in the barterer's portfolio of securities or financial interest as the subject of a Himmelstein Option which is immediately available for bartering where the title to the security or financial interest is not actually transferred until the Himmelstein Option is exercised in the range of settlement dates specified by the barterer creating the Himmelstein Option. Where a barterer's portfolio includes such Himmelstein Options, that barterer may create a Himmelstein Option of the Himmelstein Option in which case the range of settlement dates would be within the settlement date range of the original Himmelstein Option.

In the example of Figures 4 and 5, barter website 106 is accessed via an online stock trading company that limits bartering to stocks, Himmelstein Options for stock, cash, web barter dollars and combinations thereof. The flowchart of Figure 4A begins after the trader selects "Barter" icon 103. Accordingly, barter ordering module 105 has received from the online stock trading website a barterer's list of currently owned stocks, Himmelstein Options for stock, web barter dollars and cash in the barterer's portfolio as well as the quantity and other specifics of these securities via link 104. At step 402 Figure 4A, the website displays all of the barterer's stock, Himmelstein Options for stock, web barter dollars and cash available for barter. In step 404, The barterer selects from the displayed items in step 402.

In the embodiment of Figure 5A, a symbol 502 representing a selection of the barterers portfolio of stocks, Himmelstein Options for stock, web barter dollars and cash is displayed. The barterer selects, the downward triangle 501, to display all available stocks,

Himmelstein Options for stock, web barter dollars and cash as shown in 503, an \* indicating the ownership of a Himmelstein Option for the stock and date or range of dates for settlement instead of ownership of the stock itself. Preferably, blanks are provided to indicate an indefinite opening or closing for the Himmelstein Option settlement period. For example, the DuPont Option, DD\* is depicted having an indefinite closing date.

The system preferably further indicates if the barterer's security is currently included in a posted barter order requiring the barterer to cancel said posted barter order prior to selecting the security for a new barter order. Optionally, an alphabetical list of companies and/or stock symbols is displayed for alphabetical searching and/or the portfolio quantity 504 of the stock is also displayed. The barterer may enter the selected item 502 by typing it in. Preferably when the barterer begins typing the name or symbol of the company, the barter ordering module locates the first listed item that matches the entered characters. Alternatively, the portfolio is displayed for selection via an array of pull down menus 507, each displaying one class of the items of the barterer's portfolio.

Once the barterer locates and selects the item to be traded, the total quantity of the selected item in the barterer's portfolio (as may be provided by the online stock trading website) is automatically displayed in step 406 of Figure 4A as the quantity to be bartered. At step 408, the barterer can modify the quantity to be bartered 410. As shown in Figure 5A, the quantity 504 can be modified via selection of the directional arrows 505 or the barterer can enter a new quantity value. In either case, in this embodiment the barter order module 105 does not allow a quantity value that exceeds the quantity owned by the barterer. Alternatively, the system 100 may be configured to permit the barterer to select a range of quantities to be bartered. For example, the barterer may specify a range such as 50-100 shares for barter.

Preferably, the barter ordering module 105 has access to trading prices at step 412 of Figure 4A, so that the trading price of the selected stock is displayed along with the time and date of the trading price as illustrated in display section 506 of Figure 5A. A fixed per share



value of the stock or Himmelstein Option 508 of Figure 5B is initially set to the trading price. If barterers are trading away cash or web barter dollars, the system 100 in that instance may rearrange the screens and prompt the security being bartered for prior to prompting the cash or web barter dollars being traded away. As one skilled in the art will realize, the fields which are not applicable to cash or web barter dollars are modified to properly reflect what is being bartered. At step 414 of Figure 4A, the barterer can elect to trade at the displayed trading price or select a new barter value 416. As Figure 5B illustrates, the barterer can change the default fixed per share value 508 or select the value of the stock to be bartered based on the fluctuating stock trading price by selecting block 510.

By selecting the fluctuating value price, the value fluctuates until a barter transaction is finalized by a subsequent barterer who selects the barter order. For example, if IBM stock was trading at \$115 per share and the barterer selects "barter at current stock trading price", the barter price would be \$115 per share if the transaction occurred instantaneously. However, if the barter transaction occurred two weeks later and the stock trading price dropped to \$110, then \$110 would be the barter value price. Likewise, if the stock trading price went up, then the barter price would be that higher price.

Optionally, the barter value can be based upon the current stock trading price plus or minus a certain value or percentage in step 416 in Figure 4A and at step 511 in Figure 5B or the barter value can range around a fluctuating trading price specified as either a value amount or a percentage of the fluctuating trading price. To do this the barterer selects a range around the fluctuating stock value as illustrated in Figure 5B at 512, 518. The range can be a value amount 514, 517 or a percentage of the fluctuating trading price 516, 519. By selecting boxes 512 or 518, the barterer selects whether the range is added to or subtracted from the fluctuating value. For example, if the range was set to plus 1 percent at step 416 (by selecting box 512 and entering 1% in box 516) and the market price for IBM stock to be bartered, at the time of the barter transaction was \$115 per share, a posted barter order

with a value price between \$115 and \$116.15 would match the barterer's order. A barterer may issue a Himmelstein Option to barter away IBM stock as low as minus 9 percent of the \$115 IBM market price by checking box 518 and entering 9% at box 519 so that a posted barter order with a value price between \$104.65 and \$115 would match the barterer's order.

5           Once the value of the item to be bartered is selected in step 416 of Figure 4A, the barter ordering module displays at step 418 of Figure 4B the total barter amount and the percentage or dollar amount of the value price in relation to the available market price per share in Figure 5B, at 520. Should a range of value price be selected, the display 520 is modified to reflect such. In the example of Figure 5B, the barterer can change the barter  
10       value 520 by clicking on a "change" icon 522 and going through the appropriate steps or accept the value 520 by clicking on a "continue" icon 523. This is also shown at step 420 of Figure 4B.

At step 422 of Figure 4B, barter order fee amounts are displayed. Fee amounts, as illustrated in sample screen display lines 524 and 526 of Figure 5C, are determined based  
15       on whether the barter order is to be posted to the barter order database 524 or the barter should occur with the barter website directly 526.

At step 424 of Figure 4B, the barterer selects the time in which the barter order is valid. As illustrated in the embodiment of Figure 5C, timing options 528 are displayed once the barter selects the down arrow. The five options are:

- 20           1)     day only;  
              2)     good until canceled;  
              3)     fill or kill;  
              4)     immediate or cancel; or  
              5)     only view the current posts.

25           The "day only" options means that the barter order can be posted to the posted barter database only until the end of the day. Thereafter, the barter order are expunged from the posted barter order database. The "good until canceled" option means that the barter order

remains posted to the posted barter order database until it is canceled by the barterer. If the "fill or kill" timing option is selected, the entire quantity must be filled or the barter order is canceled. With "fill or kill" timing, the barter order is not be added to the posted barter order database, but the database is searched for a match. Similarly, a barter order is not added to the posted barter order database if the "immediate or cancel" timing is selected. In this case, a posted barter order for only part of the barterer's quantity matches the barterer's order. The last timing option, "only view the current posts", never adds the barter order to the posted barter order database. Instead, the barter matching engine 118 displays the current matches found in the posted barter order database.

At step 426 of Figure 4B, the barterer may select special conditional parameters. The available special conditions are "minimum quantity," "do not reduce," "all or none," and "deferred settlement." The display portion 530 of Figure 5C illustrates one means of selecting special conditions. In this embodiment, the barterer may select one of the conditions by selecting a corresponding box. If the minimum quantity condition is selected, the barterer then either adjusts the display quantity via the arrows or enters a minimum quantity value. The default minimum quantity may be set to equal the barter quantity 504. Selecting "do not reduce" means the per share value will not be reduced even if the transaction date is the stock's dividend date. If the barterer selects the "all or none" option, all barter matches must barter the entire quantity of the stock to be traded away.

Selecting the "deferred settlement" condition creates a Himmelstein Option of the item being bartered. The barterer is then required to identify open and close settlement dates, which may be the same. If the barterer is already bartering a Himmelstein Option, the barter ordering module 105 automatically selects "deferred settlement" and displays the date used by the original creator/issuer. The barterer may modify the dates as long as the modified dates are within the range of dates used by creator/issuer. Optionally, at step 531, Figure 5C the barterer may enter a subsequent amount of the security or a different security

to be provided at settlement. As hereinbefore described, the system will prompt barterer to include minimum criteria to clearly identify the security and the value.

At step 428 of Figure 4B, if the desired security is stock, the barterer selects between three choices for the desired stock with respect to a dividend reinvestment option. Accordingly, the barterer chooses between: 1) the stock must have a dividend reinvestment program; 2) the stock must not have a dividend reinvestment program; or 3) accept new stock with or without a dividend reinvestment program. In the embodiment illustrated in Figure 5D, the barterer selects the desired option by selecting the corresponding box in section 532.

At step 429 of Figure 4B, the barterer chooses the type of barter they wish to transact, (i.e. a direct barter only or permit the website to act as the barterer or use an intermediary if a direct barter is not available). The barterer can request a direct barter with an order from the posted barter database at a first fee rate, or in the alternative for a second fee rate, the barterer can request the website to be the barterer. The first and second fee rates may be the same or change independent of each other. At times to promote automated website bartering, depending on the securities to be bartered, the second fee rate may be set at a relatively low rate, or it may be set to a premium rate for the automated service. According to the embodiment illustrated in Figure 5D, the barterer selects the type of transaction in section 534.

Following the selection of barter type, step 429, posted barter orders may optionally be displayed 430 based on matches of posted order "to be acquired" items with the barterer's "to be bartered item." In the case of a direct barter, a trade can be displayed immediately if a match is found in the database, or the barterer can complete and post the order to the database and await a match from a subsequent barterer. In the case of a barter with the website, the transaction is displayed immediately provided the website can buy or obtain the stock, Himmelstein Option, web barter dollars or cash desired by the barterer. Here, the

website uses a predetermined formula including taking into account the relationship with the barterer to calculate the fee for this type of transaction.

The barterer selects the desired stock, Himmelstein Option, web barter dollars or cash price to acquire for the barter order at step 431 of Figure 4B. If the barterer's desired security is a stock, Himmelstein Option, web barter dollars or cash, the barterer checks the appropriate box in display 537 as illustrated in Figure 5D. Optionally, if the barterer's desired security is stock, the system 100 displays all stock and Himmelstein Options for the desired stock in the database, allowing the barterer to accept a Himmelstein Option in lieu of actual stock. In a manner similar to that of selecting a stock to be traded from the barterer's portfolio, stock symbols 535 are displayed upon selection of a down arrow. Optionally, the barterer can select from a list of industries 536 wherein the stock symbols 535 are filtered to list only those related to the selected industry. Alternatively, a merged alphabetical list of companies and/or stocks is shown for alphabetical searching. Additionally, the system 100 can be configured to show various companies (in a predefined sort) including the symbol and predefined financial information.

If the barterer chooses a stock or Himmelstein Option, by selecting it, the system 100 displays the symbol 535 pertaining to the chosen company. Next, in step 432 of Figure 4C the barter ordering module informs the barterer of the available stock trading price of the desired stock/Himmelstein Option, along with the current date and time. One method of displaying the price is illustrated in Figure 5D at section 538.

The barter value of the desired item defaults to the available stock trading price at section 540 of the display of Figure 5E for stock, or Himmelstein Option. Further, if the system 100 had a barterer trading a stock or Himmelstein Option for cash or web barter dollars, the system 100 may prompt in 540, the stock trading price of the stock or Himmelstein Option being traded away. The barterer can accept the displayed value at step 434 or select a new value at step 436 of Figure 4C. In the display of Figure 5E, the desired stock value for stock or Himmelstein Option can be selected similar to that of selecting the

stock value to be traded. The barterer can select a fixed value using box 540 or a value plus or minus the stock trading price (similar to step 511, as shown in Figure 5B) or a fluctuating stock value range in section 541 in a manner as described in connection with 510-519 of Figure 5B. The stock value can range around a fluctuating trading price specified as either a value amount or a percentage of the fluctuating trading price. Thereafter, as indicated in the flowchart of Figure 4C at step 438, the total desired barter amount and percentage or dollar amount to the stock trading price is displayed as illustrated in sample display 542 of Figure 5F. At step 440 of Figure 4C, the barterer can change the barter value of the desired item which steps can be implemented by clicking the "change" icon of display section 542 of Figure 5F.

At step 442 of Figure 4C, the present invention assists the barterer in determining whether the barter order is financially advantageous to the barterer. Several ratio formulas, termed Himmelstein Value Ratios, are provided to assist the barterer. In the embodiment of Figure 5F at section 544, the barter ordering module selects the specific formula and the Himmelstein Value Ratio is displayed. The barterer may then change the barter order per step 444 by selecting a change icon in section 544 of the display Figure 5F.

In an alternative embodiment, the barterer selects the desired formula after receiving help text describing the formulas. Regardless of the method used to select a particular formula, there are three preferred formulas:

Value Ratio 1)  $(x/y)/(a/b)$

Value Ratio 2)  $(a/b)/(x/y)$

Value Ratio 3)  $(b/a)-(y/x)$

where: a = value price for security/Himmelstein Option desired to trade away

b = current security trading price for security/Himmelstein Option desired to trade away

x = value price for security/Himmelstein Option desired to obtain

y = current security trading price for security/Himmelstein Option desired  
to obtain

For example, using Himmelstein Value Ratio 2, a barterer owning Coke stock or Coke Himmelstein Option is willing to barter it away at a value of \$65 per share, and Coke is currently trading at \$67 on the stock market. If the barterer desires to barter for IBM stock, or IBM Himmelstein Option at value of \$110 per share and the stock is currently trading at \$115 per share on the stock market, the Value Ratio formula is:  $((65/67)/(110/115)) = 1.014$ , which means that if the barterer trading Coke stock/Coke Himmelstein Option for IBM stock/IBM Himmelstein Option chose to complete the transaction, they will gain 1.4 percent. In essence, in this formula anything less than 1 is a stock/Himmelstein Option barter transaction that loses value and anything greater than 1 is a transaction that gains value. This formula is important to understand the relationship between the value of the stock/Himmelstein Option that is being traded away and the stock/Himmelstein Option that is being obtained. In lieu of displaying the Value Ratio, the system 100 may display the actual percentage of increase or decrease after interpreting the Value Ratio. Variations of the above formulas may also be used. Any Himmelstein Value Ratio formula may be modified by adding or subtracting a predetermined value or variable. For example, Formula  $(a/b)/(x/y)$  may be changed to have the value "-1" subtracted to it making the new Formula  $(a/b)/(x/y)-1$ . If Himmelstein value formula  $(a/b)/(x/y)-1$  is greater than 0.00 then to what extent greater is the percentage of profit, which in the above COKE/IBM example is 1.4%. Any Himmelstein Value Ratio formula may be modified by multiplying or dividing a predetermined value or variable. For example, formula  $(a/b)/(x/y)$  may be changed to have the variable "y/x" multiplied to it making the new formula  $(a/b)*(y/x)$  or  $(y/x)*(a/b)$ . If Himmelstein value formula  $(a/b*y/x)$  is greater than 1.00 then to what extent greater is the percentage of profit, which in the above COKE/IBM example is 1.4%. Any Himmelstein Value Ratio formula may be modified by having both a predetermined value or variable added or subtracted while at the same time multiplying or

dividing by another predetermined value or variable. For example, formula  $(b/a)-(y/x)$  may be changed to have the value of "1" added to it and have the variable "-1" multiplied to it making the new Formula  $((-b/a)+(y/x))-1$  or  $((y/x)-(b/a))-1$ . If Himmelstein value formula  $((y/x)-(b/a))-1$  is greater than -1.00 then to what extent greater is the percentage of profit, which in the above COKE/IBM example is 1.4%.

For securities such as CD's, bonds, annuities and government bonds that provide an interest rate/current yield until a due/maturity date, the system may calculate the actual income from that present day forward to be earned, factoring in the type of interest and adding same to all applicable variables (i.e. b or y) in the above stated formulas. For the securities stated above, the barter order module may require the settlement date to be the same date as the due/maturity date. In other words, the variables in the above formulas would be defined as:

- a = value price for security/Himmelstein Option desired to trade away.
- b = current security trading price for security/Himmelstein Option desired to trade away, plus future interest income from that present day forward to be earned, but not paid, before the earliest settlement date of the securities being bartered.
- x = value price for security/Himmelstein Option desired to obtain.
- y = current security trading price for security/Himmelstein Option desired to obtain, plus future interest income from that present day forward to be earned, but not paid, before the earliest settlement date of the securities being bartered.

For barter items or securities such as CD's that do not have a current trading market, the system 100 can also calculate the accrued, not paid, interest from issuance up to the present day. In other words, the variables b and y in the above formulas in such instances are modified as follows:

- b = system calculated security trading price for security/Himmelstein Option desired to trade away includes the following:
  - original purchase price or face value of barter item or security plus,



- accrued unpaid interest income from issuance up to the present day plus,
- future interest income from that present day forward to be earned, but not paid, before the earliest settlement date of the securities being bartered.

y = system calculated security trading price for security/Himmelstein Option  
 5 desired to obtain includes the following:

- original purchase price or face value of barter item or security plus,
- accrued unpaid interest income, from issuance up to the present day plus,
- future interest income from that present day forward to be earned, but not paid, before the earliest settlement date of the securities being bartered.

10 Optionally, for securities such as CD's that do not have a current trading value, the system 100 may have the applicable variables (i.e. b or y) include the original purchase price or face value plus accrued interest income, excluding future interest income so that the system provides a "current day" value. The barterer may select the desired formula, including the definitions of b and/or y for each security in a barter transaction after receiving  
 15 help text describing how each variable may optionally be defined in the formulas.

If the securities being bartered have different due/maturity dates, the system 100 may use the present day to the earliest settlement date as the period of time for calculating the income to be earned, calculating each securities' actual interest rate/current yield, factoring the type of interest, and adding same to the respective variables (i.e. b or y). To ascertain  
 20 a more accurate Value Ratio, when one security has interest income, such as CD's, and another security does not, such as stock, the system may include or exclude interest income from the Value Ratio formulas depending on the formula chosen by barterer/system. The system 100 may disclose and or incorporate the actual formula(s) used to ascertain the Value Ratio into a finalized transaction agreement.

25 Where no conventional market value is available, the system 100 may be configured to examine posted barter orders or develop methods or new formulas to determine a current trading price.

Referring to Figure 4D at step 446, the barterer can review the barter order prior to submission of the order to the barter matching engine. As illustrated in the embodiment of Figure 5F the barter order module lists at section 546 the terms and conditions before the barterer submits the order by clicking an appropriate icon 548. Alternatively, the barterer may decide to terminate the barter order creation by clicking a "QUIT" icon 549.

Once the order is submitted by the barterer at step 448 of Figure 4D, the matching engine searches the website database for a barter order or in an embodiment where the engine matches multi-order barterers, multiple barter orders to satisfy the submitted order. If no match is found at step 450, the barter matching engine determines whether the order should be posted to the database 452 based on the timing selected at step 424 of Figure 4B. If the order should be posted, the barter order database module 116 posts the order to the database.

After the barterer clicks on the "continue/agree" icon 548, (and depending on the timing chosen), the system 100 in accordance with Figure 4D posts the barter as an available transaction 452, 456 and/or finds and displays "matching" posted barter orders 450, 454 via the screen display illustrated in Figure 6. The "matching" in the preferred embodiment includes matching the barterer's desired item and barter items with the barter and desired items of single or multiple combinations of posted barter orders where any matched Himmelstein options have overlapping settlement dates.

Where posted barter orders are displayed, preferably the barter orders are listed by the lowest share price of the stock or Himmelstein option that the barterer wishes to acquire such as in display section 610 of Figure 6. If any one of the available barter orders requires the price to fluctuate with the stock market, the display is preferably continually updated so that the prices reflect market value as close to real time as possible. The screen also displays the order number, symbol, share price, ratio to stock trading price, Value Ratio, number of shares, barter amount, barter price fluctuate with stock trading price, special conditions, timing, and dividend reinvestment criteria.

If the individual decides that they are willing to barter away some or all of their selected portfolio stock/Himmelstein option for one or more barter orders listed, they select to do so 458, of Figure 4D (or as long as they have more barter amount available) by simply clicking on each order, (i.e. choosing first preference then second preference, and so on). Each time an order is chosen, the system 100 permits/requires the individual to revise their original quantity, and value price in the stock/Himmelstein option for which they desire to trade away in the barter, thereby requiring the individual to accept the prices and the amount of stock/Himmelstein option received in return from the barter order that they had selected. When a posted order is chosen, the system 100 enters the corresponding information in a table on the screen to notify the individual of the transaction number, number of "shares trading away" with item price, number of "shares receiving" with item price and barter amount with totals at bottom of the table as reflected in screen table 620 of Figure 6. For cash and web barter dollars, the fields which are not applicable remain blank. Optimally, the system may display in 620, the after date and before date for Himmelstein Options being acquired or bartered.

Each time a transaction is chosen, the system 100 reduces the value for "amount of barter left" in a display box 622. If an individual has less than an available barter transaction, (with no special conditions nor timing limitations) when the individual selects the order number, the system 100 shows the number of shares for which the barter is permitted. Upon selecting each order, the system 100 shows the residual amount in a display box 624 and presents three choices 460: 1) hold stock/Himmelstein option in escrow; 2) donate the stock/Himmelstein option; and 3) purchase other stock/Himmelstein option. If any of these choices are chosen, the system 100 displays additional screens to complete the above tasks. Optionally, the system 100 may allow the barterer to convert the residual amount into web dollars which are added to the barterer's portfolio after the transaction is completed.

Additionally, when a barter order is chosen, the system 100 "locks" the barter order, including the price, to the individual for a predetermined duration. A display of the time remaining to complete the transaction appears in a "time remaining" display box 626. Should the time expire, the system 100 provides two options: 1) finalize transaction; 2) or lose transaction in "X" seconds, with seconds decrementing on screen. The system 100 may, if desired, inform the individual that someone else is looking at the same barter order and may inform other users that there are pending barter orders which may come available.

Upon the individual reviewing available barter orders and deciding what they want to do, (i.e. accept one or more orders or none), they proceed by choosing one of the following four icons 631-634: 1) clear; 2) change barter order; 3) finalize transaction; and 4) finalize transaction but display more barter options. Each option leads to the display of additional screens to complete the selected task as indicated in Figure 4E.

In addition to the main bartering screens, the system 100 may include pop-up screens to show "history" of past barter transactions and to show performance on how a security is performing, and the current Value Ratio formula provided from past transaction(s). If an individual bartered away Himmelstein Option(s) that have not gone to settlement, the system provides a screen selection showing the security or securities, the range of settlement dates allowed and preferably includes all of the criteria or information in the actual barter transaction.

The system 100 exhibits other special conditions such as if the value of a security falls, the system 100 may require barterers to barter some or all of a security back; an election to require that the Value Ratio must stay within a specified range for a specified time or trigger an action by the system 100 such as a penalty, or forcing the individuals switch some or all security back, etc.; and the entry of multiple securities or symbols, and corresponding value prices, and permit the system 100 to automatically take the best Value Ratio as long as Value Ratio is over a specific number (i.e. such as 1.00) set by the barterer

and the system 100 automatically completes the transaction if posted barter orders exist meeting that criteria.

The system 100 may be programmed to automatically purchase security within a predetermined value range when a barter order is posted or market values change, complete  
5 a barter transaction for the barter order and sell the acquired security while charging an appropriate fee. The system 100 may act as a negotiator between barterers, sending each an e-mail or otherwise notifying them when the search engine discovers potential matches among barter orders. The system 100 may permit access by individual barterers to the  
10 identity of barterers who have posted "matching" barter orders to allow them to negotiate directly between themselves through e-mail or otherwise. The system 100 may require e-mail sent through it to purge "identity" (i.e. ensure anonymity). The system 100 may create an e-mail subsystem allowing individuals interesting in bartering to enter limited pertinent information into the blanks of the agreement being presented to one another only identifying  
15 the individuals by the order number that was created by the system 100 when it originally posted the barter order. This is referred to as an "offer to purchase." The system 100 may lock the individual's security being offered for a specified time allowing the individual receiving the offer time to accept, modify, or reject the offer. In other words, the individual making the offer cannot back out unless the person receiving it fails to respond within the time frame, modifies it or rejects it.

20 The system 100 can also be configured for telephone access so that all functions that one may do online may be done over the telephone. Additionally, pre-approved individuals can be permitted to barter for securities (which the website holds in escrow) prior to bartering their own securities.

In the generalized version of the barter system, various types of barterers may be  
25 implemented as schematically illustrated in Figures 7A through 7E.

Referring to Figure 7A, a two party exchange or direct barter is illustrated. For example, Individual "A" barterers directly with Individual "B" effecting an exchange of

securities, X and Y respectively. Example, Individual "A" issues or posts a Himmelstein Option to barter 100 shares of AOL worth \$1,000 (Stock "X") for 200 shares of IBM worth \$1,000 (Stock "Y") after 01/01/00 and before 02/01/05. Individual "B" accepts the Himmelstein Option effectuating an agreement to immediately barter 200 shares of IBM for the rights to acquire 100 shares of AOL in the future. A receives the 200 shares of IBM from B and irrevocably commits A's 100 shares of AOL to be transferred to B or B's designee at any time settlement is demanded between 01/01/00 and 02/01/05.

In the event the barter transaction is not an exact match in value, the system 100 may balance the barter transaction by allowing one barterer or the other to pay cash, provide web barter dollars, offer a different security, such as a Himmelstein Option on a different security, or allow the barterer to acquire more of the particular security that they are bartering.

Referring to Figure 7B, a two party exchange with an intermediary is illustrated. For example, Individual "A" barterers with Individual "B" to trade away security X and acquire security Y through an intermediary. If a match is located but the values are not equal, the intermediary may retain the excess security and supplement the barterer bartering away the greater value security with cash, provide web barter dollars, a different security, such as a Himmelstein Option on a different security, or acquire more of the desired security (by first acquiring such).

The intermediary either obtains additional cash, a security, such as a Himmelstein Option, or more of the desired security, such as a Himmelstein Option from the other barterer and/or from a third party (upon which the intermediary reciprocates a security, such as a Himmelstein Option, cash, or web barter dollars). For example, using the same values above, Individual "A" issues or posts a Himmelstein Option to barter 100 shares of AOL for 200 shares of IBM. Individual "B" has 100 shares of IBM that he would like to barter for the rights to acquire 50 shares of AOL in the future. The intermediary keeps the

Himmelstein Option for 50 shares of AOL and acquires the additional 100 shares of IBM and completes the exchange with individual A.

Figure 7C illustrates a three party transaction with an intermediary. Individual "C" barter away security Y to receive security X. The intermediary, which may be the barter website, identifies Individuals "A" and "B" to complete the transaction. Individual A sells or barter security X for cash and Individual B buys or barter security Y for cash. The cash amounts may or may not be equal, but Individuals A, B and C may incur a service charge from the intermediary/website for the service provided. In lieu of cash, web dollar credits are preferred where the website acts as intermediary. In another embodiment, the system 100 may allow the barterers to barter away their securities or financial interest at a different time than when they receive a security or financial interest. This is a "Deferred Exchange."

Figure 7D illustrates a three party transaction without an intermediary. In this example, barterer "A" receives cash for security or financial interest X. Barterer "B" receives security or financial interest X in exchange for security or financial interest Y. Barterer "C" receives security or financial interest Y for the cash which is received by barterer A.

Figure 7E illustrates a two party exchange with an intermediary. Barterer "A" wants to exercise a Himmelstein Option (i.e. have settlement and take title) to own the security in the Himmelstein Option. In this illustration, the system 100 may require in the Agreement that to exercise the Himmelstein Option, the barterer must do so through the system 100. Barterer A trades the Himmelstein Option on financial interest X for the actual interest X to the intermediary. The intermediary acquires the interest X from source B in exchange for consideration Z. The intermediary then maintains Himmelstein Option for X in its own portfolio for future bartering. Z may be web dollars or some other security or interest acquired by the website in a similar manner. Alternatively, if the value of Z is more than the Himmelstein Option for X, the system 100 allows Barter "A" to exercise the Himmelstein Option (i.e. have the settlement on security X).

Where the system 100 or a designated entity acts as an intermediary, a barterer can create a barter order that does not require a security at the same time it barter away its own security. For example, an individual may allow their security to be bartered for an interest of equal value which the barterer can identify at a later time. The understanding being that the barterer can defer the completion of the transaction by the website or a designated entity acting as intermediary. If another barterer accepted the barter order terms, the funds for the transaction are immediately placed in an escrow account. For example, if the current tax law permitted, the system 100 would allow "X" number of days to choose a particular security and "X" number of additional days to actually acquire the new security. Therefore, the website or a designated entity may hold the securities in escrow as a third party. The website or a designated entity may, upon being directed by the barterer who has funds in escrow, acquire a specific security to complete the barter. In this embodiment, the system 100 may continually update the barterer with respect to the security such as stocks (re: stocks that the individual informed the system that they were interested in) with respect to the current "closest" matches for a specific stock or range of stocks that exist in the database system, based on the Value Ratio formula(s) that were previously defined herein. This can be done by either e-mail, phone, or when the barterer accesses the website. While online, the system 100 may continually update the closest matches, thereby permitting an individual to either ignore, choose one, or choose multiple ones. If the individual chooses a match or several matches, with excess remaining funds, these excess funds are held in escrow.

The system 100 may be configured to only barter Himmelstein Options or the future rights. Reiterating, a Himmelstein Option is an agreement given by the individual that owns the barter item or security, an irrevocable right to another party that after a specific date and before a specified date, this party has the right to "go to settlement" and acquire the barter item or security. Further, the Himmelstein Option allows the party in possession or any party currently in possession to barter said Himmelstein Option, i.e. transfer said rights for settlement. Barter order parameters then include an "after date" upon which a Himmelstein



Option may be exercised and an “expiration date” that the Himmelstein Option expires. The expiration date may be an indefinite date. For example, barterers may do this to diversify their portfolios where they do not have the right to sell a security immediately, (such as via a preexisting agreement with an employer company). If the security is unregistered, the system can, after the holding period, directly process the stock with a designated transfer agent in order for it to be allowed to be transferred, i.e. go to settlement. In this instance, only Himmelstein Options are able to be immediately bartered since the barterer cannot transfer the security until after a specific date.

The Himmelstein Option value and security value may be different, and usually would be different if the Himmelstein Option expiration date is a specified date and not open or “indefinite”. Both dates and values are preferably displayed for matching barter orders in a manner similar to the display of Figure 6.

Acting as an intermediary, the system 100 can hold a barter item or security in a trust account if, or until, someone exercises a Himmelstein Option to acquire it. A barterer posting a Himmelstein Option barter order chooses the after and expiration date which date(s) must be within the terms of their Himmelstein Option if they are not the actual owner of the security. The system 100 may prompt the expiration date as “indefinite”, with the barterer who is creating the Himmelstein Option away having the ability to modify the Himmelstein Option barter order with a specific date. The value of the “Himmelstein Option” is worth less if there is an expiration date, at which time the Himmelstein Option no longer exists. If the barter item or security subject to the Himmelstein Option is held in trust by the system 100, the system returns the item or security upon expiration date to the barterer who had offered the Himmelstein Option or the party who settled the Himmelstein Option and obtained “title.” The purpose of the system 100 holding the security “in escrow”, or in trust, is to ensure that a barterer acquiring a Himmelstein Option has a complete assurance that their right of ownership is “guaranteed” should they exercise it at a future date. The system 100 has the ability, (if it were a security such as stock or a mutual fund),

to include or exclude the dividends, long term gains and losses and short term gains and losses. If the dividends, long term gains and losses, and short term gains and losses were included, at the end of each tax year, the 1099-DIV and gains and losses issued may be transferred to the system 100 as the “nominee” which may in turn, make the “nominee” the individual who had obtained the Himmelstein Option or the rights of ownership to the security.

Himmelstein Options having an “after date” and an “expiration date” when settlement can occur has a number of benefits for individual barterers. A barterer bartering away securities can ensure that a sale occurs after the barterer has owned the security more than one year so that any income is taxed at capital gains rate instead of ordinary income rate. If a barter works for a company that requires them not to sell the security for a specific time period, but the barterer wants to diversify their portfolio, the system 100 allows them to do so.

The system 100 has other advantages. For example, incorporating the security stock into a Himmelstein Option that is bartered removes uncertainty (i.e. future risk). This is beneficial in many instances. For example, successful, educated investors desiring to decrease their stock portfolio can recognize this benefit and utilize the Himmelstein Option to reduce their stock portfolio in a controlled manner.

Since the system 100 allows securities, such as CD's to be incorporated into a Himmelstein Option, if one wanted to become liquid prior to maturity, one can barter away a Himmelstein Option on the CD in lieu of incurring a penalty for early redemption. The net value of the Himmelstein Option issued is logically set by the barterer to be less than the penalty.

The system 100 is preferably configured to internally track all individual rights when acting as an intermediary or escrow. If a barterer wants to “cash out”, the system may permit them to barter their securities including a Himmelstein Option away for cash, or alternatively

require them to exercise their Himmelstein Option and then sell their securities that they acquired.

For tax purposes, the system 100 can require a barterer to transfer with the security their estate exemption (or a portion thereof) up to the allowed estate exemption amount (which is currently \$625,000) as a gift. In this case, the barterer is not entitled to this at death. When that individual receives a security in return, the individuals from whom the security came would also have given an estate exemption. Also, the system 100 can be configured to utilize the gift tax exemption. In essence, allowing a barterer to gift up to the maximum non-taxable amount, which is currently \$10,000, to each and every individual that they barter with at which time they receive the same amount back in the security such as cash as “a gift”. This requires all gift transactions to be less than or equal to \$10,000.

If Section 1031 of the Internal Revenue Code of 1986 is amended to include securities as defined earlier, the present system can be configured to effectuate a tax deferred exchange should one or both bartering parties desire such. Further, the system 100 can be adapted, modified or changed to utilize or capitalize on any existing or future tax laws.

Per the S.E.C., barter transactions or transfer of rights are not registered. Thus, this system permits bartering in a discrete and/or anonymous manner, (i.e., not informing the public). However, the system 100 is preferably configured to compile historical barter information regarding barter transactions of each barter. Additionally, the system 100 may be modified to meet S.E.C. regulations, if required. Terms and Conditions in a Himmelstein Option can include contingencies for settlement. For example, a Himmelstein Option may be bartered with a contingency that for settlement it must meet SEC approval.

The present system permits any type of securities or financial interests to be bartered, including but not limited to CD's, stocks, bonds, notes, evidences of indebtedness or interest, interests in a partnership, certificate of trust or beneficial interest, etc. The system 100 can interface with or be incorporated as part of online companies in such a fashion that it is transparent to the clients of the online trading company. When a client from an online

trading company desires to purchase a particular security, the online trading company may choose to acquire, if available, from another individual who has entered a transaction to barter their security away. The online trading company can act as the intermediary and barter for the security, in essence making the online trading company the system 100 barterer with the ability to acquire new stock and/or any security, and then sell it to their online client. By doing this, the online company can keep the entire spread between the "ask and bid" with no commissions, and undercuts traditional stock exchanges in price and speed by eliminating intermediaries such as floor brokers or specialists from the trading process.

The system 100 can be configured to handle "exchange funds" often known as "swap funds" or (Private Placement Memorandum) P.P.M. wherein an individual puts in their financial interests or security (such as stock shares) into the fund for exchange units of the entire fund. This allows the individual to diversify their financial interests or securities such as stock holdings without having to pay capital-gains taxes. In such a case, the system 100 maintains "system" funds and barterers exchange various financial interests for units of the "system" fund. The system 100 can also be configured to further open and close new funds when deemed necessary by the system or by pre-set parameters.

The system 100 can allow barter orders to require only some security up front at the time of the Himmelstein Option Agreement being consummated. This portion of the security or commodity may or may not be refundable. The balance of the Agreement would only be paid if the Himmelstein Option is finalized, or ownership of the security is transferred.

For example, a posted transaction can state that the Himmelstein Option must occur after 01/05/00 and before 01/06/00 and the barterer is bartering AOL stock for cash or web barter dollars for \$5.00 per share paid immediately which is non-refundable and \$95.00 per share at settlement. Individuals accepting this Himmelstein Option must pay the \$5.00 per share which is non-refundable. On 01/06/00 if the AOL stock is less than \$95.00 per share, the individual will choose not to exercise their rights in the Agreement, thereby allowing the

Agreement to expire. This is to be defined as selling long, in the "virtual stock market", (i.e., system 100).

In an alternative embodiment, the system 100 may allow a barterer to issue a Himmelstein Option on a security that the barterer does not own, nor have a Himmelstein Option (i.e. rights to own). If, or when, the Himmelstein Option is chosen (for example, by person "A") the barterer is required to acquire the security or the Himmelstein Option that was being traded away, on or before the date after the barter transaction may occur, to then hand it over to person "A". This is to be defined as selling short or trading futures in the "virtual stock market" (i.e. system 100).

The virtual market (i.e. system 100) can handle what is referred to in the financial industry as a margin account wherein the system 100 allows the barterer to borrow web barter dollars, cash or issue Himmelstein Options against the value of their portfolio including Himmelstein Options in their possession.

When someone issues a Himmelstein Option, the barter transaction can also allow the person issuing the Himmelstein Option to enter a different before and after date for the Himmelstein Option for the new security desired. Therefore, in this embodiment, the system 100 may require the person posting the transaction for the Himmelstein Option for the security desired to give a specific date before, and a specific date after, or a range of dates that would be acceptable. This range of dates may be disclosed to potential barterers; or in the alternative, can be undisclosed (making a potential barterer be required to choose specific dates, before and after) without knowing the range of dates that the individual posting the Himmelstein Option used.

With respect to the securities that provide dividends, interest etc., the system 100 can further do the following. The system 100 may keep the dividends, interest etc. as part of the transaction, and may put in a common "pool" all dividends, interest etc. realized. A formula is used to proportion the amount between any, and all, clients holding Himmelstein Options for the specific class of items.

The system 100 can require barterers to enter Himmelstein Options or barter orders in round lots. For example, if the security was stock, the system 100 can require increments of 100 shares.

The system 100 can have the ability to break down posted order(s) into specific dollar and or quantity amount(s) allotment and re-post. For example, if the system 100 chose to break down into a specific dollar amount, the system 100 can choose one thousand dollar amount(s) or block(s). If someone posted 10 shares of IBM stock at \$110.00 for each share, the system 100 can re-post to be 2 barter orders: one order to be 9 shares of IBM stock with 10 web barter dollars; and one order with 1 share of IBM stock as the residual amount. In another example, if the system 100 chose to break down into a specific quantity amount in the security "stock", the system 100 may decide to break down posted orders to allotments of 100 shares and post the remaining portion (if any) that isn't dividable by 100. For example, if the posted order was 1220 shares, the system 100 can re-post to be 13 barter orders: (12) barter orders with 100 shares and (1) barter order with 20 shares. Further, if the system 100 wanted all residual amount(s) to be a specific figure, the system 100 can require the balance of the security plus web barter dollars to always be a specific value. The purpose is to simplify the barter values to be essentially equal to a common value or multiple common values in the system 100 to facilitate more barter transactions.

As a "virtual stock market", the system may allow all securities to be in decimal format or dividable by 100, 1000 etc. This means that even a Himmelstein Option (no matter the security stated in the Himmelstein Option) can be in decimal format or dividable by 100, 1000 etc. Therefore  $1.00 = 1$  total unit of the particular security. For instance if the security is stock, 1.00 would equal one share of stock for a particular company.

Therefore, any fractional or decimal amount created from a barter transaction can be worth for example, as little as .001 of a web barter dollar or .001 of a U.S. dollar. Specifically, if Individual "A" posted a barter order to barter away 100 shares of AOL stock at \$85.00 per share while desiring IBM shares at \$180 per share, the system may, (if an

available match existed or if it was a direct barter with the website) complete the barter order and provide 47.22 IBM shares at \$180.00 per share. In this case, decimal amount of .22 is worth \$39.60, if \$180 is the current stock trading price per share. Alternatively, the system/barterer may allow, depending on the parameters set, barter 99.53 shares of AOL stock for 47 shares of IBM stock.

The system can state in all barter agreements (i.e. terms and conditions) that all parties using the system may accumulate "fractional" or "decimal" amounts (i.e. all values less than (1.00) total unit of a particular security) from different parties and upon the sum equaling 1.00, allow the sum to become 1 unit of a security, such as 1 share of stock. It should be noted that for Himmelstein Options, the system would be required to ensure the latest before dates and latest after dates overlap, and the system would restate the before date and after date to be the latest before date and earliest after date of all the fractional or decimal amounts.

Preferably, the system maintains a history knowing which fractional or decimal amount came from which security, such as stock, and can, when beneficial to the system and/or the barterer, reparate a unit of a particular security and rematch it back together with a portion of the original security that had been part of the actually split. If for a Himmelstein Option, this may change the range of settlement dates.

Optimally, the system may allow barterers to barter fractional or decimal amounts to other barterers and/or only with the system.

The system may set the standard for minimum transaction and maximum transaction based upon various concerns, including but not limited to, profitability and or irregularities, illegal trade practices and illegal trade patterns.

The methodology of the "standard" Himmelstein Option is to allow two or more parties to agree at a future date to barter, exchange or sell items or securities based on current agreed values, regardless of the trading values of the securities at the time of settlement. In an alternative embodiment, two or more parties may agree to exchange or

barter at a future date based on values on that future date. In this embodiment, the settlement date or dates for each security may yet be a different date.

5 The system may unilaterally determine, or give each individual barterer, the ability to select a closing price for securities as trading days get longer with extended after-hours trading. For example, if a security was stock, the system may permit an individual to choose the traditional 4:00 P.M. eastern/standard time closing price of the NYSE and the NASDAQ market. On the other hand, the system or individual may choose the value based on after-hours trading. For example with the security, stock, or Himmelstein Option for stock, the system uses the closing price as the current stock trading price as noted on 538, Figure 5D and 506, Figure 5A.

10 The system 100 can operate 24 hours a day or during standard market hours and/or during predefined after hours trading or a combination thereof. The system 100 can further allow specific securities to be traded/bartered during specific time frames or allow a barterer to choose the hours during which the barterer wants their barter order posted (i.e. available for barter). Furthermore, the barterer or the system may allow the after hours trading market to operate totally independent from the standard market hours session. It may be a selectable parameter by either the barterer or system to determine whether a barter order posted during standard hours will participate in the after trading sessions and vice versa. Also, the barterer or system can determine if un-executed barter posted orders placed in either the standard or after hours session carries over to the other session or gets canceled.

20 The system can ensure that barterers remain anonymous from one another and may utilize trustees, assignors or intermediaries to accomplish such.

The system can also allow any barter order to be canceled under specific terms. Further, if the order was not “locked” by a barterer or already processed, the system can permit an individual who created the barter order to cancel or modify same.

25 The system can also utilize the latest security features and encryption methods available.



The system may permit an individual to post a barter order with a range of quantities acceptable to the individual. For example, if the individual posted IBM stock with a range of 5-10 shares, this means that the system can accept a barter order for any quantity between 5-10 shares. This increases the likelihood of the barter transaction occurring. As will be recognized by those skilled in the art, the fee structure charged by the system may be modified to handle this embodiment.

The system 100 can also conduct or perform auctions wherein the system 100 can further require: 1) a bidder to bid with a specific security; 2) a bidder to bid with a specific list of securities pre-approved; 3) require various conditions on a bidder such as requiring security to be held by the system/designated agent; 4) pre-approve an individual to bid and 5) Minimum bid requirements may exist. The system 100 may use the embodiment that allows "offers" and allows communications between potential barterers using the system's e-mail subsystem.

An agreement for a Himmelstein Option can state various additional conditions such as requiring that the barterer in possession of or in ownership of a Himmelstein Option must first offer or sell same to the system 100 and/or owner of the security prior to going to settlement. The system may allow a barterer creating Himmelstein Options the ability to draft specific conditions to essentially create a custom contract to meet the barterer's needs.

If the system 100 utilizes an intermediary or designated agent, the system 100 has the ability to fully communicate in such fashion to ensure that all securities are transferred back and forth in a proper controlled and secure fashion.

The system can authorize and permit an individual to access the ebarterrealestate.com system and utilize an intermediary, or directly barter for real estate.

Referring now to Figure 8, the posted barter order database module 116 stores posted barter orders 806, provides access routines 802 and performs maintenance of the database 804. Among the access routines 802 are add order record, delete order record and get order record.

The add order routine generates a database record that comprises the barter order in addition to a unique transaction number, the time and date stamp of the order and the account number. There are numerous delete routines to remove posted barter orders based on different criteria. Some of the criteria are account number, transaction number, time and date, and barter item. Similarly, the get routine can return records based on the same criteria.

The maintenance program 804 executes periodically, or optionally at the request of and access routine 802, to remove and modify posted barter orders. For example, orders may be modified if a stock split occurs and the barter order designates this stock or a Himmelstein Option for the stock. Orders can be removed for a number of reasons such as the barter order expires, the barter account closes or the barter item is no longer available. For example, a barter order can be removed if stock trading is halted and the barter order designates this stock.

Barter orders are modified by the maintenance program 804 under a number of circumstances. A stock symbol designated in an order may have changed or the account number of the barter order is changed. Optionally, maintenance program 804 generates indexes and tables to facilitate quick access to the database records.

Referring to Figure 10, an alternative embodiment of the present invention comprising a real estate barter system 1100 is illustrated which utilizes a computer-based website that may effectuate a tax-free exchange or tax deferred exchange for swapping barter items including any type of real estate. Real estate as defined herein includes ownership in real estate and leases of real estate. Barter items are defined as including, but not limited to, real estate, leases of real estate, stock, cash (foreign or domestic currencies), web barter dollars, Himmelstein Options, CD's, bonds, notes, Option Put, Option Call, Commodities/Futures, Annuities, Muni Bond(s), Government Bonds, Funds, Strips (Zero Coupon Treasuries), Ginnie Mae(s), Fannie Mae(s), Freddie Mac(s), UIT (Unit Investment Trust), T-bills and any future created or defined security, commodity or commodity money. Bartering different categories of items is supported by the system 1100. For example, real

estate can be bartered for other real estate or securities, such as stocks or bonds. The system 1100 provides for its own "web-barter dollars" which may be accumulated or traded by barterers using the system 1100 and are particularly useful in facilitating barterers where items of unequal value are traded.

5           The system 1100 includes a barter website 1106 which is accessed via a real estate company website 1102 or directly via the Internet using a computer such as a personal computer 1114 or a wireless hand-held computer with Internet connectivity 1110. Optionally, the system 1100 may be incorporated as part of an existing real estate company's website.

10           In the case of access via a real estate company website 1102, the barterer uses a computer such as a personal computer 1108, a portable computer 1117 or a wireless hand-held computer with Internet capability 1112 to select a "Barter" icon 1103 that incorporates a link 1104 to the barter website 1106. Once the icon 1103 is selected, the barterer's account information is transferred via a link 1104 to the barter website 1106. In this manner, the barter website 1106 is provided with all of the relevant particulars of each item owned by the individual barterer. For example, in the case of real estate, the website 1106 preferably includes the address, tax information, official appraised value, assessed value and information regarding the property's physical features and amenities. In the case of stocks, the barter website 1106 preferably includes data indicating issuing company, number of shares, market value and whether dividends are reinvested. Using the link 1104, the barter website 1106 is transparent to a barterer accessing it via the real estate company website 1102.

20           The system 1100 can be further interfaced with traditional real estate brokers and stock brokers so traditional brokers and clients without the resources to go directly "online" can barter in the same manner.

25           While the barter system 1100 supports bartering of a large array of items as disclosed hereinbefore, an online real estate company hosting the "Barter" icon 1103 can limit barterers

to certain categories of items. For example, a real estate company website 1102 that provides online real estate trading may chose to limit the barter website 1106 to transactions involving only real estate or leases for real estate. Preferably, the use of stock, web-barter dollars and/or cash is also permitted by the real estate company website 1102 which enables a wider range of barter orders to be matched and barter transactions to be completed.

Regardless of the items bartered, the barter website 1106 comprises three main components: 1) a barter ordering module 1105; 2) a posted barter order database module 1116; and 3) a barter matching engine 1118. Optionally, the system 1100 may include a separate database (not shown) of each individual's barter items portfolio including all real estate holdings. In general, the barter ordering module 1105 permits a trader, herein referred to as the barterer, to create a barter order that includes the item to be traded, the item desired and additional parameters related to the barter order.

The table set forth in Figure 11AA and Figure 11AB reflects typical parameters associated with various classes of barter items including real estate or securities to be identified in a barter order. In each barter order, the appropriate parameters are identified for both the item to be traded and the item to be acquired so that the barter order comprises two sets of item parameters. The two sets of parameters may be quite different where the two items which are the subject of the barter order are of a different class or type. Each portfolio item, regardless of type or classes, can be transformed into a Himmelstein Option agreement by defining a future date or range of dates for settlement using the last column in the table Figure 11AB.

When an individual creates a barter order for real estate or any type security, the system 1100 produces an Agreement of Barter, Exchange, Sale or Lease which sets forth the detailed terms and conditions. Barterers, in essence, fill in the blanks of the Agreement of Barter, Exchange or Sale. For real estate, these Agreements will be similar in form and scope to current real estate Agreements. The system 1100 may also require electronic signatures to accompany the Agreement or may create a parallel Agreement for each barterer

for simplicity and anonymity purposes. The Agreement also includes the system 1100 as a party, providing various conditions or rights that the system 1100, intermediary or designated agent(s) has with the barterer.

At settlement, title to the real estate, security or financial interest is transferred. For real estate, for example, settlement may require the actual transference of the deed to the real property. Preferably, a new type of "electronic deed", similar to a stock transaction, is used so that a paper deed is not required and a book entry of the real estate transfer may be made to transfer title.

When the barterer creates a barter order, the system 1100 creates an order number referencing the barter order. The system 1100 may randomly create or code barter order numbers so only the system 1100 is aware of the age of a barter order and the identity of the barterer. The posted barter order database module 1116 accumulates posted barter orders and includes the software to add, delete and maintain the data in the database. The barter matching engine 1118 selectively matches a barterer's barter order with posted barter orders in the database 1116. Posted barter orders "matching" a barterer's order are displayed such that the barterer can select a candidate or multiple candidates from the displayed listing of matching posted orders.

The matching process functionally operates as a filter to display posted orders matching a selected criteria. Preferably, the filter is defined by the barterer and sets forth the parameters which are required, (such as the price and type of property), and the parameters which are optional. An example of an optional parameter for a real estate barter may be the number of bedrooms. The barterer may set the number of bedrooms to six (6), but the barterer would accept a barter with as little as four (4) bedrooms. A detailed parameter listing for residential real estate is shown in Figure 11C. As shown, the parameters for real estate may be very detailed regarding the physical features of the dwelling and the grounds. The barter may specify which of the parameters are required and may set a range for the parameters such as number of bedrooms, number of bathrooms or total square footage of the

dwelling or the lot. The barter may also specify "other" comments regarding each feature, such as the furnace being preferably a Lennox furnace.

The system 1100 then attempts to match the barterer's selected item to be acquired with posted orders having the same item to be bartered. The price of the selected item may also be used for filtering to require a direct quantity match or a match within a quantity range. The barterer's selected item to be bartered is also a preferred criteria for the matching filter, so that postings are displayed of barter orders which seek to acquire the item selected to be bartered by the barterer. A preferred filter includes both the barterer's selected item to be bartered and selected item to be acquired. Thus, where a barterer's desired item is real estate, (a single family dwelling in a particular geographical area), posted barter orders seeking to barter away real estate comprising single family dwellings in said geographical area are displayed as matches. Other matches may require lake front, river front, waterfront, lagoon front, bay front, beach front, etc. These parameters may be listed in the parameter list under "other".

The barter matching engine 1118 attempts to match one "closest" posted barter order or multiple posted orders with the barterer's order. The barter engine 1118 can also be configured to use the barter website (or an entity chosen by the website) as an intermediary as explained in greater detail below.

Figure 12A illustrates a barter item database 1202 having a plurality of sample posted barter orders 1204-1222 stored in module 1116 and Figure 12B illustrates a sample barter order 1226. In this example, the barter order 1226 includes the real estate to be bartered indicated by the type of property 1228, the location 1230 of the property to be bartered, (preferably including more detail such as county, city and address), the asking price 1232 at which the barterer is willing to barter and several of the parameters 1233, 1235. The information regarding the property to be acquired preferably includes the type of property 1234, the location 1236, the value 1238 the barterer is willing to barter for the desired property and several of the parameters 1240, 1242. Equity in/out 1244 is provided for the

entire barter order 1226. It should also be noted that the barter order format may change depending upon the type of item to be bartered. For example, fields 1229 and 1231 were filled in by the barter as "R" to indicate real estate. If "S" for stock were input by the barterer, these fields 1229, 1231 would change according to the particulars of stocks. The same coding can be used for each type of barter item shown in Figures 11AA and 11AB.

Although the barter order example shown in Figure 12B includes a fixed value, this value need not be fixed. For example, if the barterer desires to barter a single family dwelling in New Jersey for a certain number of shares of IBM stock, the price of the IBM stock may fluctuate before settlement. Accordingly, the barterer depending on how the barter was entered, may agree to accept a lower value if the IBM stock decreases in value or may require a larger number of shares in order to equalize the value to the asking price 1232. Of course, the other barterer must preagree to this equalization at the time the barter contract is consummated. Optionally, the system 1100 may change a fee to collar a particular security to ensure that said security holdings maintain a specific value. Barterer order 1226 indicates that the barterer has real estate 1229, a single family dwelling 1228 located in New Jersey 1230, having an asking price 1232 of \$298,000 which the barterer is willing to trade at a value 1238 of \$323,000 for other real estate 1231, comprising a single family dwelling 1234 located in New Jersey 1236. The barterer has also agreed to pay \$25,000 cash or an equivalent amount of stock to close the transaction. If the matching criteria is set to match only the barterer's desired item within a specified range which, for example, may be 10% in this case, orders 1210 and 1222 are displayed. If the matching criteria is set to match only the barterer's barter item selection, orders 1206 and 1208 are displayed. If the matching criteria is set to match either the barterer's barter or acquire item selection, orders 1206, 1208, 1210 and 1222 are displayed.

Figure 13 illustrates a multi-order barter selection 1300 having first 1302, second 1308, third 1314 and fourth 1320 barter orders according to the present invention. Multi-order barter selection may be used either in order to find all potential available barterers

among the posted barter orders. In this example, the barter engine 1118 cannot fulfill the first barter order 1302 with a single one of the other barter orders 1308, 1314 or 1320. The first barter order 1302 barter a single family dwelling in New Jersey 1304 for a multiple family dwelling in New Jersey 1306. For ease of explanation, the following abbreviations are used throughout this specification: SFD - single family dwelling; MFD - multiple family dwelling; COM - commercial property; LAND - undeveloped property. Of course, the two-letter state abbreviations are also used.

None of the other posted database orders barter MFDNJ for SFDNJ, but barter order 1302 can be fulfilled if intermediate barterers are matched. The barter matching engine 1118 matches intermediate barterers using several methods. In one embodiment, barter matching engine 1118 searches for a posted barter order having a desired real property that matches the barterer's real property to be traded. Since posted barter order 1320 lists SFDNJ as the desired real property 1324 and the first barter order 1302 real property to be bartered is SFDNJ 1304, the barter matching engine 1118 match for the first half of the first barter 1302 has been satisfied. However, the barter matching engine must find a match for the desired real property 1306 for the first barter order 1302 and must also find a match for the first half 1322 of the third barter order 1320. Accordingly, the barter matching engine must find a transaction that satisfies the desired COMNJ 1322 of the third barter order 1320.

The barter matching engine 1118 searches for an order that trades COMNJ for MFDNJ in order to make a two posted order barter transaction. However, in the example, there is no posted order that trades these two real properties, so the barter matching engine 1118 locates barter order 1308 that trades SFDPA 1310 for COMNJ 1312. The barter matching engine 1118 then searches for another posted barter order that trades MFDNJ for SFDPA to find a transaction candidate. Barter order 1314 meets this criteria in that MFDNJ 1316 is traded for SFDPA 1318. Accordingly, barterer order 1302 can be satisfied through posted barter orders 1320, 1308 and 1314. In a preferred embodiment so as to make the multi-order transactions transparent to the barterer, barter matching engine 1118 displays



multi-order barterers as a single "phantom" posted barter order. The matching engine 1118 creates a transaction and displays this phantom barter order in the list of matching barter candidates. The barterer simply selects the phantom barter order to finalize the multi-order barter transaction. In these examples, it is assumed that the values and other parameters set by the barterers permit all barter orders to occur.

In another method for locating multi-order barterers, barter matching engine 1118 begins by searching for the barterer's desired real property 1306 first. Barter engine locates barter order 1314 that trades MFDNJ 1316 for SFDPA 1318. Continuing in this manner, the engine locates the same posted barter orders as above, but in the reverse order. In general, the engine 1118 attempts to link multiple barter orders. One of ordinary skill in the art of software programming appreciates that a recursive algorithm is well suited for generation of such a linked list. If a transaction can be automatically processed, the system 1100 can try to match the most number of barterers involved or the greatest amount of money involved without adversely effecting other transactions.

The operation of barter ordering module 1105 allows the barterer to enter the barter order. In one embodiment of the present invention, the barterer selects minimum barter order parameters such as the type of real property (i.e., SFD, MFD, COM, LAND), price desired, price paid, number of total rooms, number of bedrooms, etc. Of course, one should realize that with real property, particularly dwellings, there are a vast number of parameters that can be utilized to specify real property as shown in Figure 11C. If the barter item is a security, the specific stock, quantity and value price of the security to be bartered in addition to the desired security and value price for the security desired. Once these minimum parameters are selected, other parameters are set to default settings determined by barter ordering module 1105.

Barter orders may be created for real estate barterers as the "trade for" side, the "trade away" side and both as illustrated in flowcharts Figures 14A-14E and the screen displays of Figures 15A-15F, where the barterer is prompted through each step of the barter order

creation process. For bartering other securities or financial interests with real estate, the bartering steps and screen displays are modified to preferably accommodate all of the parameters for the classes of items identified in Figures 11AA, 11AB, 11BA and 11BB.

The example shown in Figures 14A-E and 15A-F is directed to bartering of real estate and securities. In this example, the barter website 1106 is accessed via an online real estate company that permits bartering of real estate, stocks, cash, web barter dollars and combinations thereof. The flowchart of Figure 14A begins after the trader selects the “Barter” icon 1103. Accordingly, barter ordering module 1105 has received from the online real estate website a barterer’s current real estate portfolio. If desired, the barterer may also forward information regarding the barterer's securities, such as stocks, bonds, etc. The real estate and the securities will be referred to hereinafter as "barter items". If the barter item is a security, the quantity and other specifics of these securities are also provided via link 1104. If the barter item is real estate, various detailed particulars are also provided including, but not limited to, location of property, map to property, assessed value of property, equalization ratio and appraisals, etc. or the parameters set forth in Figure 11C. At step 1402 of Figure 14A, the website displays all of the barter items available for barter. In step 1404, the barterer selects from the displayed items in step 1402.

In the embodiment of Figure 15A, a symbol 1502 representing a selection of the barterer's portfolio of real estate, stocks, web barter dollars and cash is displayed. The barterer selects the downward triangle 1501, to display all available barter items as shown in 1503.

The system preferably further indicates if the barterer's security or real estate is currently included in a posted barter order, thereby requiring the barterer to cancel said posted barter order prior to selecting the security or real estate for a new barter order. Optionally, an alphabetical list of geographical locations (for real estate) and company or stock symbols (for securities) is displayed for alphabetical searching. The portfolio quantity 1504 of the barter item is also displayed, if applicable. The barterer may enter the selected

item 1502 by typing it in. Preferably when the barterer begins typing the geographical location of the real estate, the barter ordering module 1105 locates the first listed item that matches the entered characters. Alternatively, the portfolio is displayed for selection via an array of pull-down menus 1507, each displaying one class of the items of the barterer's portfolio.

Once the barterer locates and selects the item to be traded, the total quantity of the selected item in the barterer's portfolio is automatically displayed in step 1406 of Figure 14A as the quantity to be bartered. At step 1408, the barterer can modify the quantity to be bartered 1410, (this is not applicable to real estate). As shown in Figure 15A, the quantity 1504 can be modified via selection of the directional arrows 1505 or the barterer can enter a new quantity value. In either case, in this embodiment the barter order module 1105 does not allow a quantity value that exceeds the quantity owned by the barterer. Alternatively, the system 1100 may be configured to permit the barterer to select a range of quantities to be bartered.

Preferably, the barter ordering module 1105 has access to trading prices for stocks at step 1412 of Figure 14A, so that the trading price of the selected stock is displayed along with the time and date of the trading price as illustrated in display section 1506 of Figure 15A. The system may provide a range of values for the real estate based on various data, including, but not limited to, the assessed value, the equalization ratio, (if applicable), appraised value, (if any is available), comparable properties that have sold, comparable properties listed for sale and any other data available. A fixed per share value of the stock 1508 of Figure 15B is initially set to the trading price. If barterers are trading away cash or web barter dollars, the system 1100 in that instance may rearrange the screens and prompt the security being bartered for prior to prompting the cash or web barter dollars being traded away. As one skilled in the art will realize, the fields which are not applicable to a particular barter item such as real estate, cash or web barter dollars are modified to properly reflect what is being bartered. At step 1414 of Figure 14A, the barterer can elect to trade at the

displayed trading price or select a new barter value 1416. As Figure 15B illustrates, the barterer can change the default fixed per share value 1508 or select the value of the stock to be bartered based on the fluctuating stock trading price by selecting block 1510.

Preferably, the barter value is based upon the asking price of the real estate. Optionally, the system 1100 may determine a "market value" based upon new methods or procedures. The barterer can then select a range (i.e. plus or minus a certain value or percentage), in step 1416 in Figure 14A and at step 1511 in Figure 15B or if the barter item is a security, the barter value can fluctuate based on the current trading price. The barterer selects this range as illustrated in Figure 15B at 1512, 1518.

The range can be a value amount 1514, 1517 or a percentage of the fluctuating trading price 1516, 1519. By selecting boxes 1512 or 1518, the barterer selects whether the range is added to or subtracted from the fluctuating value. For example, if the range was set to plus 1 percent at step 1416 (by selecting box 1512 and entering 1% in box 1516) and the asking price for the real estate to be bartered at the time of the barter transaction was \$800,000, a posted barter order with a value price between \$800,000 and \$808,000 would match the barterer's order. Likewise, a barterer may enter minus 9 percent of the asking price by checking box 1518 and entering 9% at box 1519 so that a posted barter order with a value price between \$728,000 and \$800,000 would match the barterer's order.

Once the value of the item to be bartered is selected in step 1416 of Figure 14A, the barter ordering module displays at step 1418 of Figure 14B the total barter amount and the percentage or dollar amount of the value price in relation to the asking price in Figure 15B, at 1520. Should a range of value price be selected, the display 1520 is modified to reflect such. In the example of Figure 15B, the barterer can change the barter value 1520 by clicking on a "change" icon 1522 and going through the appropriate steps or accept the value 1520 by clicking on a "continue" icon 1523. This is also shown at step 1420 of Figure 14B.

At step 1422 of Figure 14B, barter order fee amounts are displayed. Fee amounts, as illustrated in sample screen display lines 1524 and 1526 of Figure 15C, are determined

based on whether the barter order is to be posted to the barter order database 1524 or the barter should occur with the barter website directly 1526.

At step 1424 of Figure 14B, the barterer selects the time in which the barter order is valid. Although there are many choices, as illustrated in Figure 15C, the only timing option 5 1528 that is available for a real estate barter is for the barterer to set a specific date for settlement.

At step 1426 of Figure 14B, the barterer may select special conditional parameters if applicable. The available special conditions are not applicable to a real estate barter. At step 1531, Figure 15C the barterer may enter a subsequent amount of the security or a 10 different security to be provided at settlement. As hereinbefore described, the system can prompt barterer to include minimum criteria to clearly identify the security and the value.

At step 1428 of Figure 14B, if the desired security is stock, the barterer selects between three choices for the desired stock with respect to a dividend reinvestment option. Accordingly, the barterer chooses between: 1) the stock must have a dividend reinvestment program; 2) the stock must not have a dividend reinvestment program; or 3) accept new 15 stock with or without a dividend reinvestment program. In the embodiment illustrated in Figure 15D, the barterer selects the desired option by selecting the corresponding box in section 1532.

At step 1429 of Figure 14B, the barterer chooses the type of barter they wish to transact, (i.e. a direct barter only or permit the website to act as the barterer or use an intermediary if a direct barter is not available). The barterer can request a direct barter with an order from the posted barter database at a first fee rate, or in the alternative for a second fee rate, the barterer can request the website to be the barterer. The first and second fee rates may be the same or change independent of each other. At times to promote automated 20 website bartering, depending on the securities to be bartered, the second fee rate may be set at a relatively low rate, or it may be set to a premium rate for the automated service.

According to the embodiment illustrated in Figure 15D, the barterer selects the type of transaction in section 1534.

Following the selection of barter type, step 1429, posted barter orders may optionally be displayed 1430 based on matches of posted order "to be acquired" items with the barterer's "to be bartered item." In the case of a direct barter, a trade can be displayed immediately if a match is found in the database, or the barterer can complete and post the order to the database and await a match from a subsequent barterer. In the case of a barter with the website, the transaction is displayed immediately provided the website can buy or obtain the real estate, stock, web barter dollars or cash desired by the barterer. Here, the website uses a predetermined formula, including taking into account the relationship with the barterer to calculate the fee for this type of transaction.

The barterer selects the desired real estate, stock, web barter dollars or cash price to acquire for the barter order at step 1431 of Figure 14B. If the barterer's desired item is real estate, stock, web barter dollars or cash, the barterer checks the appropriate box in display 1537 as illustrated in Figure 15D. This changes the configuration of fields in 1535, 1536. Accordingly, if a stock is to be bartered and is selected in field 1537, the fields 1535, 1536 will change to reflect such, whereby stock symbols 1535 are displayed upon selection of a down arrow. The barterer can select from a list of industries 1536 wherein the stock symbols 1535 are filtered to list only those related to the selected industry.

If the barter item is real estate as selected in field 1537, the barterer can select from a list of cities, towns or municipalities to be shown in field 1535 and states to be shown in field 1536. This permits the barter to narrow the range of properties for which the barterer would like to trade.

If the barterer chooses a stock by selecting it, the system 1100 displays the symbol 1535 pertaining to the chosen company. Next, in step 1432 of Figure 14C the barter ordering module informs the barterer of the available stock trading price of the desired stock,

along with the current date and time. One method of displaying the price is illustrated in Figure 15D at section 1538.

The barter value of the desired item defaults to the available stock trading price (if a security) at section 1540 of the display of Figure 15E. The barterer can accept the displayed value at step 1434 or select a new value at step 1436 of Figure 14C. In the display of Figure 15E, the desired value for the barter item is selected. The barterer can select a fixed value using box 1540, a value plus or minus a fixed amount similar to step 1511, as shown in Figure 15B or a fluctuating value range in section 1541 in a manner as described in connection with 1510-1519 of Figure 15B. Thereafter, as indicated in the flowchart of Figure 14C at step 1438, the total desired barter amount and percentage or dollar amount to the price is displayed as illustrated in sample display 1542 of Figure 15F. At step 1440 of Figure 14C, the barterer can change the barter value of the desired item which steps can be implemented by clicking the "change" icon of display section 1542 of Figure 15F.

At step 1442 of Figure 14C, the present invention assists the barterer in determining whether the barter order is financially advantageous to the barterer. As hereinbefore described, the Himmelstein Value Ratios are provided to assist the barterer. Since the present embodiment includes bartering of real estate, the variables are redefined as follows:

- a = asking price for real estate or security desired to trade away
- b = system's estimated real estate price (i.e. appraised value or asking price) or current security trading price desired to trade away
- x = asking price for real estate or security desired to obtain
- y = system's estimated real estate price (i.e. appraised value) or current security trading price for security desired to obtain

In the embodiment illustrated in Figure 15F at section 1544, the barter ordering module selects the specific formula and the Himmelstein Value Ratio is displayed. The barterer may then change the barter order per step 1444 by selecting a change icon in section 1544 of the display Figure 15F.

What follows is an example related to the bartering of real estate:

a = \$500,000 = real estate

b = \$475,000 = appraisal of real estate

x = 10,000 shares @ \$50 per share of home depot stock

5 y = 10,000 shares @ \$52 per share of home depot

If there is no appraisal - a and b are equal and system can notify barter as such. For example, using Value Ratio 2, the result is 1.094. In other words, the barterer trading away the real estate will gain 9.4%. In an actual dollar amount, the gain is \$45,000.

10 Referring to Figure 14D at step 1446, the barterer can review the barter order prior to submission of the order to the barter matching engine. As illustrated in the embodiment of Figure 15F the barter order module lists at section 1546 the terms and conditions before the barterer submits the order by clicking an appropriate icon 1548. With respect to a real estate sale or lease, the system can submit an Agreement of Sale or Lease that is binding and meets current state laws for the particular transaction including all contingent agreements.

15 The barterer may choose various options provided such as home, engineers, bulkhead or termite inspections. Alternatively, the barterer may decide to terminate the barter order creation by clicking a "QUIT" icon 1549.

20 Once the order is submitted by the barterer at step 1448 of Figure 14D, the matching engine searches the website database for a barter order or in an embodiment where the engine matches multi-order barterers, multiple barter orders to satisfy the submitted order. If no match is found at step 1450, the barter matching engine determines whether the order should be posted to the database 1452 based on the timing selected at step 1424 of Figure 14B. If the order should be posted, the barter order database module 1116 posts the order to the database 1116.

25 After the barterer clicks on the "continue/agree" icon 1548, (and depending on the timing chosen), the system 1100 in accordance with Figure 14D posts the barter as an available transaction 1452, 1456 and/or finds and displays "matching" posted barter orders



1450, 1454 via the screen display illustrated in Figure 16. The "matching" in the preferred embodiment includes matching the barterer's desired item and barter items with the barter and desired items of single or multiple combinations of posted barter orders. The matching barter item includes the transaction number 1560, the asking price 1562, the type of ownership 1564 (i.e., sale or rental), and the address 1566. The barterer may also take a virtual tour by clicking on the Virtual Tour icon 1568 or may make a counter offer by selecting the Make Offer icon 1570.

If any one of the available barter orders requires the price to fluctuate with the stock market, the display is preferably continually updated so that the prices reflect market value as close to real time as possible if one of the barterers are countering with stock. The screen also displays the order number, symbol, share price, ratio to stock trading price, Value Ratio, number of shares, barter amount, barter price fluctuation with stock trading price, special conditions, timing, and dividend reinvestment criteria.

If the individual decides that they are willing to barter away some or all of their selected real estate portfolio for one or more barter orders listed, they select to do so 1458, of Figure 14D (or as long as they have more barter amount available) by simply clicking on each order, (i.e. choosing first preference then second preference, and so on) or the Make Offer icon 1570. Each time an order is chosen, the system 1100 permits/requires the individual to revise their original asking price for the real estate they desire to trade away in the barter, thereby requiring the individual to accept the real estate or the amount of stock received in return from the barter order that they had selected. When a posted order is chosen, the system 1100 enters the corresponding information in a table on the screen to notify the individual of the transaction number, and other relevant information as shown in Figure 16.

If user clicks on "transaction#/mls#", another screen appears which can show a picture of the property along with basic information shown in Figure 11C including the number of bedrooms, bathrooms, the taxes, lot size, block number, lot number, zone, type,

map, listing number, etc. In addition, there can be remarks written about the property, by the owner (i.e. seller) or by the website.

If user clicks on the Make Offer icon, the system provides the user limited pertinent blanks in the Agreement, to be filled in by the barterer, such as the buyers name (please note system may enter this automatically if all users are pre-screened before using the system); purchase price including type of security or financial interest; breakdown of payment of purchase price; mortgage contingency amount; type of mortgage including other particulars such as interest rate, length of mortgage, and points; time and place of closing; type of deed; personal property to be included; commission clause should either party hire an agent and various other particular items that maybe important from state to state or country to country.

The "seller" may counter the "buyer" agreement using the same agreement and making changes to it and returning it via the email system to the "buyer". Preferably, the system highlights any changes in different color each time so that both the seller and the buyer can recognize which changes were made on which counter offer date.

Additionally, when a barter order is chosen, the system 1100 "locks" the barter order, including the price, to the individual for a predetermined duration. A display of the time remaining to complete the transaction appears in a "time remaining" display box 1626. Should the time expire, the system 1100 provides two options: 1) finalize transaction; 2) or lose transaction in "X" seconds, with seconds decrementing on screen. The system 1100 may, if desired, inform the individual that someone else is looking at the same barter order and may inform other users that there are pending barter orders which may come available.

Upon the individual reviewing available barter orders and deciding what they want to do, (i.e. accept one or more orders or none), they proceed by choosing one of the following four icons 1631-1634: 1) clear; 2) change barter order; 3) finalize transaction; and 4) finalize transaction but display more barter options. Each option leads to the display of additional screens to complete the selected task as indicated in Figure 14E.

The system 1100 exhibits other special conditions such as if the value of a security falls, the system 1100 may require barterers to barter some or all of a security or real estate back; an election to require that the Value Ratio must stay within a specified range for a specified time or trigger an action by the system 1100 such as a penalty, or forcing the individuals to switch some or all the real estate and security back, etc.; and the entry of multiple securities or symbols, and corresponding value prices, and permit the system 1100 to automatically take the best Value Ratio as long as Value Ratio is over a specific number (i.e. such as 1.00) set by the barterer and the system 1100 automatically completes the transaction if posted barter orders exist meeting that criteria.

The system 1100 may be programmed to automatically purchase security within a predetermined value range when a barter order is posted or market values change, complete a barter transaction for the barter order and sell the acquired security while charging an appropriate fee. The system 1100 may act as a negotiator between barterers, sending each an e-mail or otherwise notifying them when the search engine discovers potential matches among barter orders. The system 1100 may permit access by individual barterers to the identity of barterers who have posted "matching" barter orders to allow them to negotiate directly between themselves through e-mail or otherwise. The system 1100 may require e-mail sent through it to purge "identity" (i.e. ensure anonymity). The system 1100 may create an e-mail subsystem allowing individuals interesting in bartering to enter limited pertinent information into the blanks of the agreement being presented to one another only identifying the individuals by the order number or transaction number that was created by the system 1100 when it originally posted the barter order. This is referred to as a "Make Offer". The system 1100 may lock the individual's real estate or security being offered for a specified time allowing the individual receiving the offer time to accept, modify, or reject the offer. In other words, the individual making the offer cannot back out unless the person receiving it fails to respond within the time frame, modifies it or rejects it. The system may act as a negotiator between two individuals by calling or sending each of them e-mail in an attempt

to get them to an agreed-upon barter amount or price. Alternatively, the system may permit the individuals involved to negotiate directly between themselves or through the system over the telephone or via email. In this manner, the system may coordinate and setup appointments or teleconferences between all parties via e-mail, telephone or fax. The system may be also setup in a user friendly manner to facilitate questions and answers about the property through e-mail, telephone or fax.

The system 1100 can also be configured for telephone access so that all functions that one may do online may be done over the telephone. Additionally, pre-approved individuals can be permitted to barter for real estate and securities (which the website holds in escrow) prior to bartering their own securities.

In the generalized version of the barter system, various types of barterers may be implemented as schematically illustrated in Figures 17A through 17E.

Referring to Figure 17A, a two party exchange or direct barter is illustrated where Barterer "A" barterers directly with Barterer "B" to effect an exchange of properties; the "relinquished" property X and the "replacement" property Y respectively. For example, Barterer A posts a SFD in NJ "X" worth \$850,000 for a MFD in NJ "Y" worth \$800,000 plus \$50,000 in cash. Barterer B accepts the barter effectuating an agreement to barter the properties and cash. Barterer A receives the MFD in NJ plus \$50,000 in cash from Barterer B and Barterer B receives the SFD in NJ and pays \$50,000 in cash.

In this case, since the barter transaction was not an exact match in value, the system 1100 balanced the barter transaction by allowing Barterer B to pay cash. The system 1100 may also permit balancing by providing web barter dollars, or offering a different security, such as stocks or bonds to make up the monetary difference.

Referring to Figure 17B, a two party exchange with an intermediary is illustrated. For example, Barterer A barterers with Barterer B to trade away real property X and acquire security Y through an intermediary. If a match is located but the values are not equal, (for example if the security of Barterer B has the greater value), the intermediary may retain the

excess security and supplement Barterer B, bartering away the greater value security with cash, provide web barter dollars, a different security or acquire more of the desired security, (by first acquiring such).

5 The intermediary either obtains additional cash or a security from the other barterer and/or from a third party (upon which the intermediary reciprocates a security, cash, or web barter dollars). In another example, using the same values above, Barterer A posts a SFD in NJ for \$875,000. Barterer B has a MFD in NJ worth \$500,000 and also has Microsoft stock worth \$400,000. If Barterer A would not accept the property value difference in Microsoft stock, but would take AOL stock. The intermediary passes the property X to  
10 Barterer B, keeps the \$400,000 of Microsoft stock Y and forwards \$375,000 of AOL stock W to Barterer A.

Figure 17C illustrates a three party transaction with an intermediary. Barterer C  
15 barters away real estate Y to receive security X. The intermediary, which may be the barter website, identifies barterers A and B to complete the transaction. Barterer A barter security X for cash and Barterer B barter real estate Y for cash. The cash amounts may or may not be equal, but barterers A, B and C may incur a service charge from the intermediary/website for the service provided. Additionally, the transactions need not occur at the same time. For example, the intermediary may complete the property transactions between barterers A and C as first "leg" of the barter, and subsequently complete the remaining property and cash  
20 transactions between A and B as a second leg of the barter.

In lieu of cash, web dollar credits are preferred where the website acts as intermediary. In another embodiment, the system 1100 may allow the barterers to barter away their real estate, securities or financial interests at a different time than when they receive a security or financial interest. This is a deferred exchange. It should be recognized  
25 by those of skill in the art that any or all of the bartered items may be real estate, securities or a combination of both. Additionally, there may be different types of real estate or

different types of securities. The system 1100 accepts all types of property for transfer and bartering.

Figure 17D illustrates a three party transaction without an intermediary. In this example, Barterer A receives cash for real property X. Barterer B receives real property X in exchange for security Y. Barterer C receives security Y for the cash, which is forwarded to Barterer A.

Referring now to Figure 18, the posted barter order database module 1116 stores posted barter orders 1806, provides access routines 1802 and performs maintenance of the database 1804. Among the access routines 1802 are add order record, delete order record and get order record.

The add order routine generates a database record that comprises the barter order in addition to a unique transaction number, the time and date stamp of the order and the account number. There are numerous delete routines to remove posted barter orders based on different criteria. Some of the criteria are account number, transaction number, time and date, and barter item. Similarly, the get routine can return records based on the same criteria.

The maintenance program 1804 executes periodically, or optionally at the request of and access routine 1802, to remove and modify posted barter orders. For example, orders may be modified if a stock split occurs. Orders can be removed for a number of reasons such as the barter order expires, the barter account closes or the barter item is no longer available. For example, a barter order can be removed if stock trading is halted and the barter order designates this stock.

Barter orders are modified by the maintenance program 1804 under a number of circumstances. A stock symbol designated in an order may have changed or the account number of the barter order is changed. Optionally, maintenance program 1804 generates indexes and tables to facilitate quick access to the database records.

Optionally, if the system 1100 included a separate database of each individual's portfolio for all securities, the system can perform similar access routines and maintenance routines as described above.

After the system 1100 is activated, for an initial period there will be no fee charged in order to build a database of properties. Once it has been deemed that the system has a substantial inventory of properties, a monthly and/or a flat fee can be charged in order to list a property on the website. Additionally, a commission upon the transfer of a particular property may be charged. The system can also charge one, or all parties for each transfer, depending upon how the parties would like the transfer structured or how the operators of the website would like to implement the fee structure.

One embodiment of the system permits an individual who posts their property on the website for sale to withdraw the offer for sale prior to settlement and change the offer to an offer to barter the property. Further, an individual can authorize the system to incorporate their cash or property into a new partnership that can invest in properties or commodities. Accordingly, the system can create or interface with an entity that creates, partnerships that can permit individuals to receive shares of a new partnership in exchange for their cash or property. Accordingly, the system can create partnerships that can utilize the excess funds from multiple individuals where each individual can receive a portion (i.e. shares) of the new partnership. This may also benefit the individual in that the IRS may deem this a non-taxable event.

The system ultimately can be the "national database" of commercial, residential and industrial property for sale or barter. Guiding individuals through the entire process of the sale or exchange of real estate, the system permits users to interface with various entities involved in real estate transactions with electronic links from the website 1102 including, but not limited to, the following:

- a) mortgage companies;
- b) real estate appraisers;

- c) title insurance companies;
- d) inspection companies including home, termite and engineer inspections; and
- e) attorneys.

5           The system also interfaces with other electronic systems to seamlessly provide information to barterers such as tax records, phone numbers, e-mail addresses and other information for a posted property and neighboring properties including, but not limited to, assessed value, last sale price, etc.

10           It should be recognized that due to the flexible nature of the system 1100, there are several services the system 1100 can provide. Pre-approved individuals may be permitted to barter (which the web site can hold in escrow) prior to exchanging their own property.

15           Since the properties don't have to close at the same time, the system 1100 can perform the transactions within the time limits set by the tax reform act of 1984, as amended. The system 1100 requires the taxpayer to identify properties within the time frame allowed, which is currently 45 days, and close on the replacement property within the time frame allowed, which is currently the earlier of: a) 180 days after the transfer of the relinquished property; or b) the due date of the taxpayer's federal income tax return (including extensions) for the year in which the relinquished property is transferred.

20           The system 1100 may take an individualized specification for a replacement property desired by an individual, before or after an individual exchanges their property, and continually update the individual regarding the available properties about which the individual may be interested. The specification includes geographical areas, type of property and other factors which are used to determine the current "closest" available matches for a specific property. The specification may be created by email, telephone or when the  
25           individual accesses the website. While on-line, the system may continually update the



closest matches, thereby permitting an individual to either ignore the matches, chose a match to look at or chose multiple matches to look at. The system may also be set up to respond by telephone or email. The system 1100 may automatically contact neighbors within a certain geographical radius of a property that is being posted for sale or barter to notify the neighbors.

In another embodiment, the system 1100 may act as an auction whereby a seller can choose whom they consider the highest bidder if offers involve different types of securities.

Although the invention has been described in part by making detailed reference to the preferred embodiment, such detail is intended to be instructive rather than restrictive. It will be appreciated by those skilled in the art that many variations may be made in the structure and mode of operation without departing from the spirit and scope of the invention as disclosed in the teachings herein.

\*

\*

\*

## CLAIMS

What is claimed is:

1. A bartering system for implementing barter between a plurality of parties each having one or more classes of items available for barter comprising:

means for creating a barter order including:

5 means for designating a selected quantity of a first class of items to be bartered;

10 means for designating a date range for transferring title of said selected quantity of said first class of items to be bartered whereby a barterer may elect to defer the transfer of title to said first class items to a time after the barter order is used to complete a barter transaction or elect to transfer title along with the completion of such a barter transaction;

means for designating a barter value of said first class of items to be bartered;

and

means for designating a second class of items to be acquired;

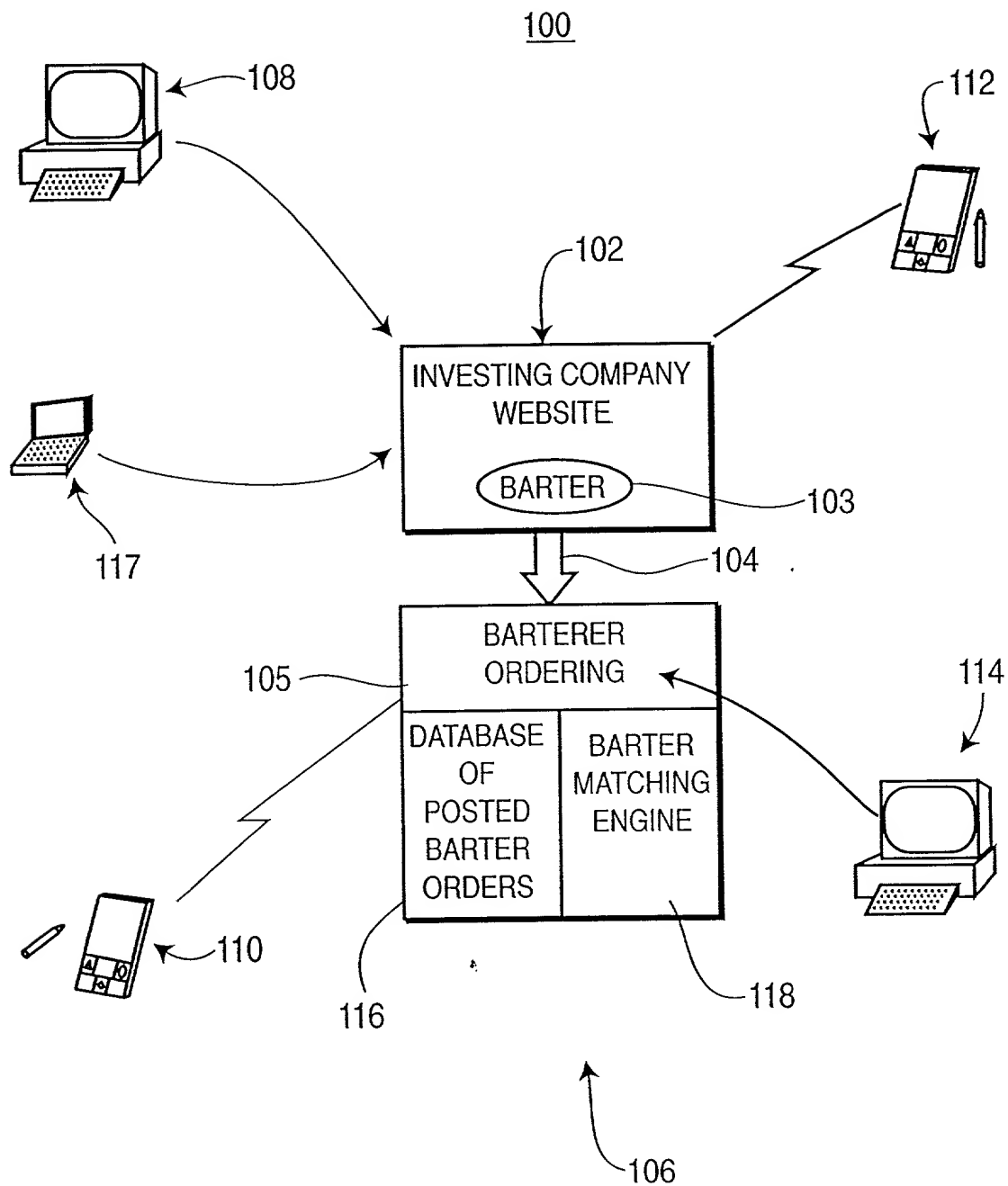
means for posting barter orders via the Internet to a barter database;

15 means for displaying via the Internet posted barter orders whose first class of items match the second class of items of a barterer's order; and

means for selecting a posted barter order from said displaying means to effectuate a barter transaction which combines a barterer's barter order with the selected posted order.

## ABSTRACT

A real estate bartering system implements barter between a plurality of parties each having one or more classes of items available for barter. Preferably, barter orders are created by designating a selected quantity of a first class of items to be bartered, designating a date range for transferring title of the first class items to be bartered, designating a barter value of the first class of items to be bartered, and designating a second class of items to be acquired. Barter orders are posted via the Internet to a barter database and may be displayed via the Internet. Posted barter orders whose first class of items match the second class of items of a barterer's order are preferably displayed. Posted barter orders from the display are selected to effectuate a barter transaction which combines a barterer's barter order with the selected posted order(s).



**FIG. 1**

226

BARTERER ORDER				
HAVE	QTY	VALUE	WANT	VALUE
DD	45	20	AET	90

228230232234236

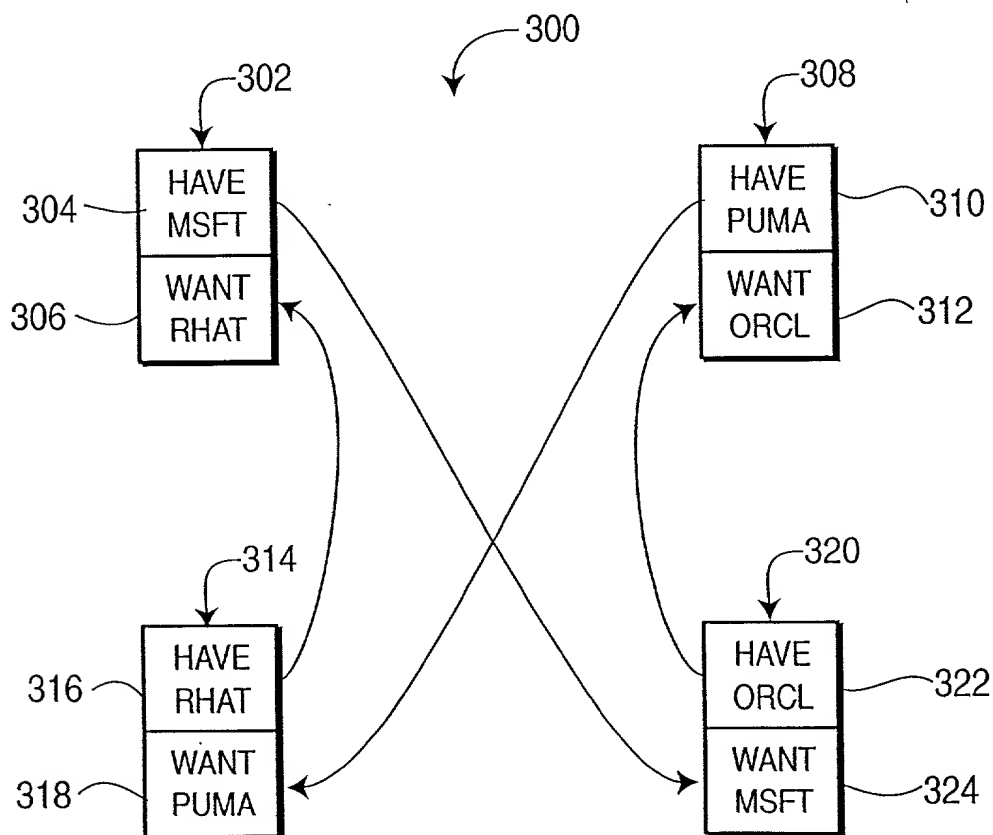
200

216

TRAN- BARTER DATA					
SECTION	HAVE	QTY	VALUE	WANT	VALUE
2221	AET	100	MKT	OMX	MKT-3%
4890	AET*	75	85	DD*	16
6034	AET*	100	90	DD	MKT
5564	DD	300	17	AET	74
9021	DD	110	MKT	RHAT	MKT
3752	OMX*	30	41	RHAT*	25
7657	OMX*	35	45	DD	20
3360	OMX*	40	MKT	RHAT	18
8290	RHAT	50	19	AET	MKT
0077	RHAT*	20	18	AET	MKT
1779	RHAT	15	MKT	OMX	29

204206208210212214216218220222224

**FIG. 2**



**FIG. 3**

400

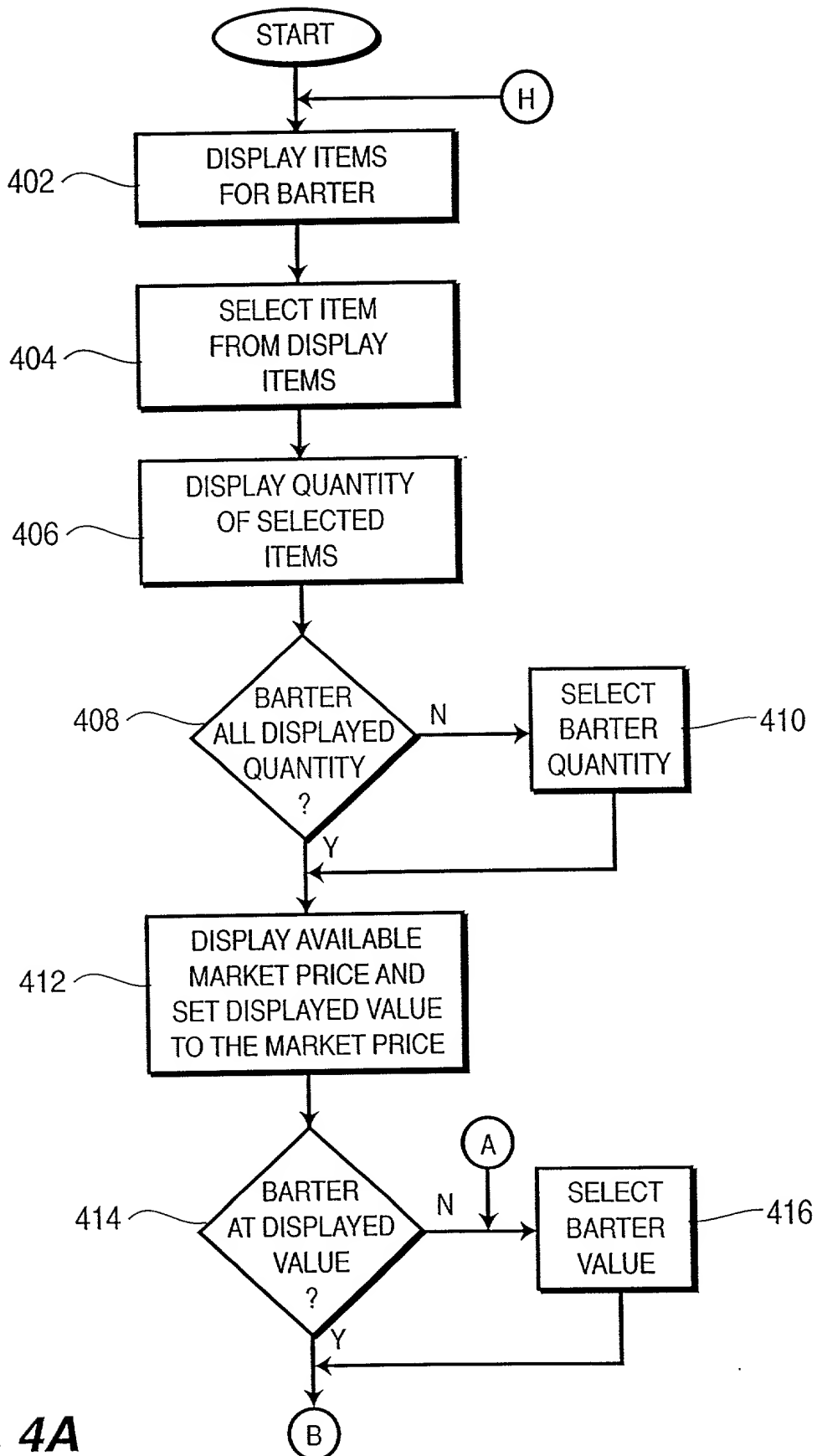


FIG. 4A

400

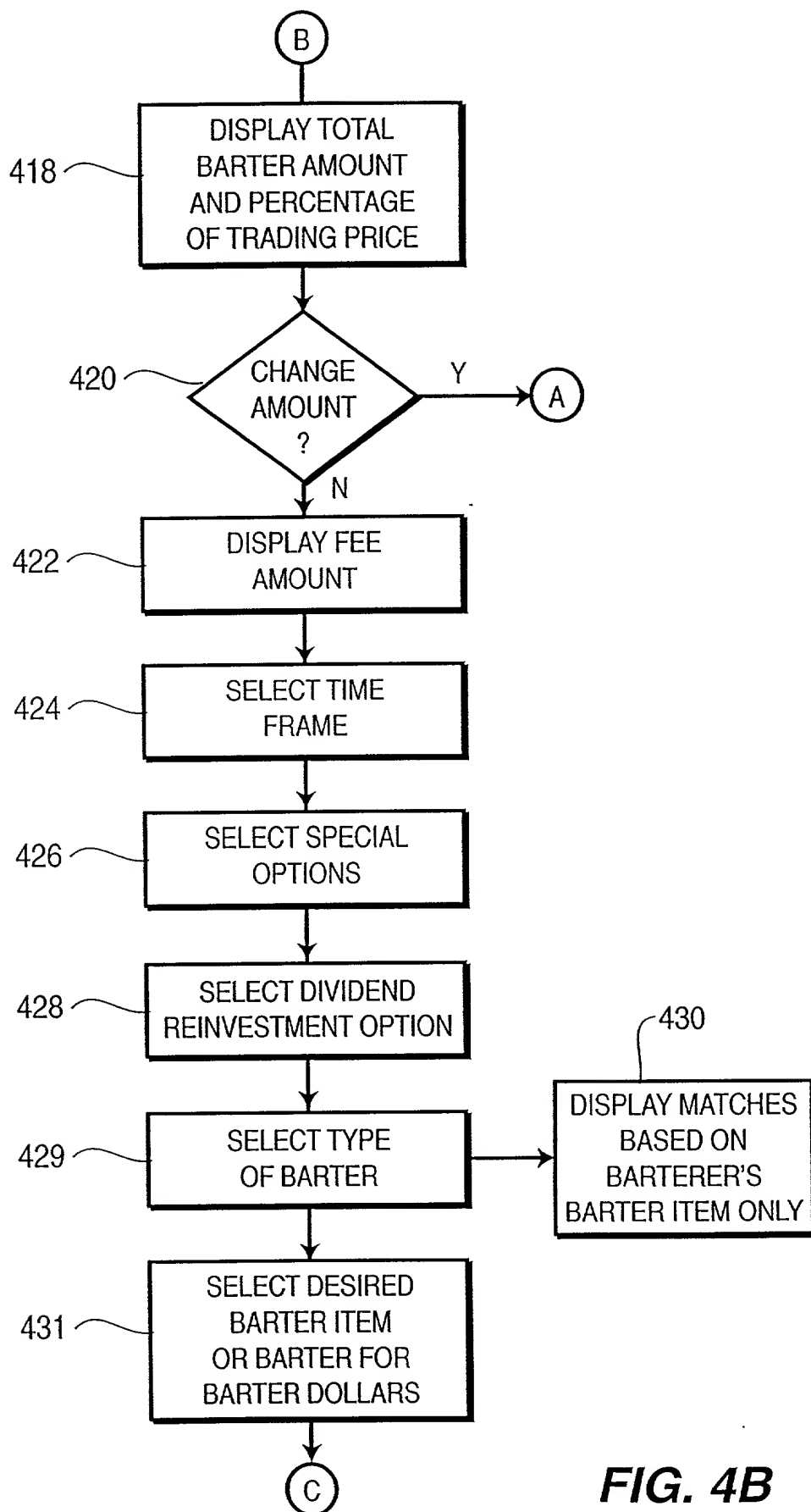


FIG. 4B

400

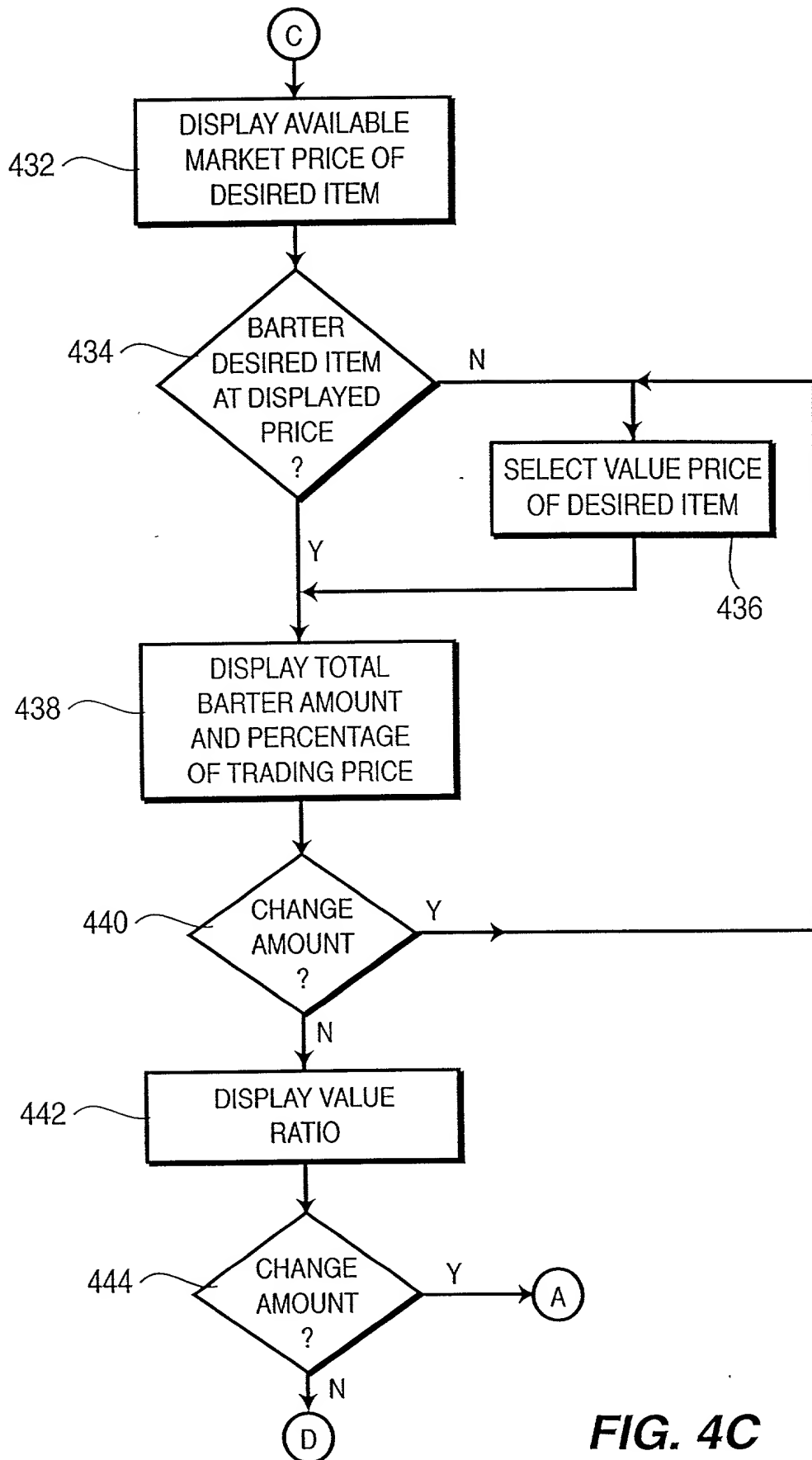


FIG. 4C



400

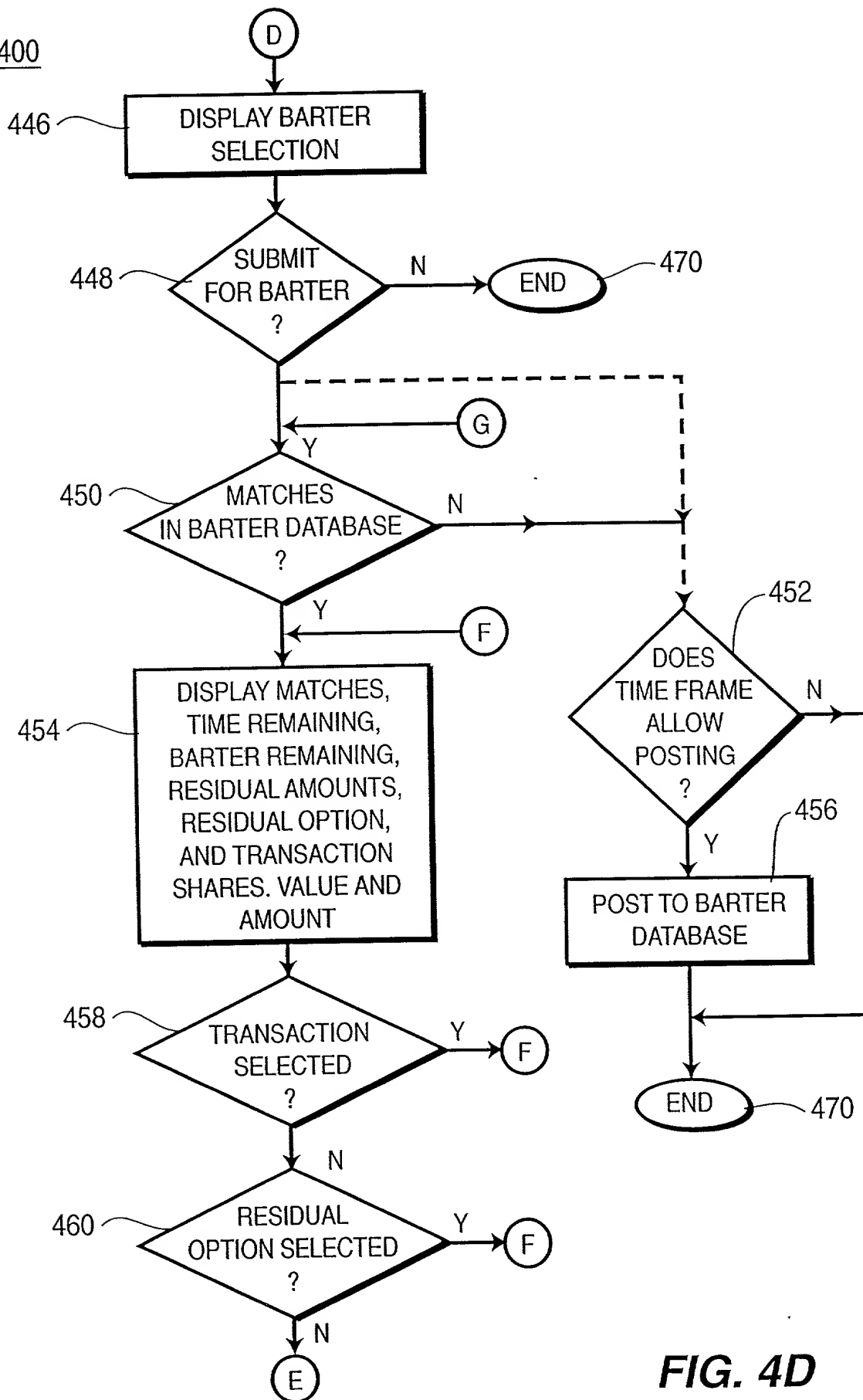
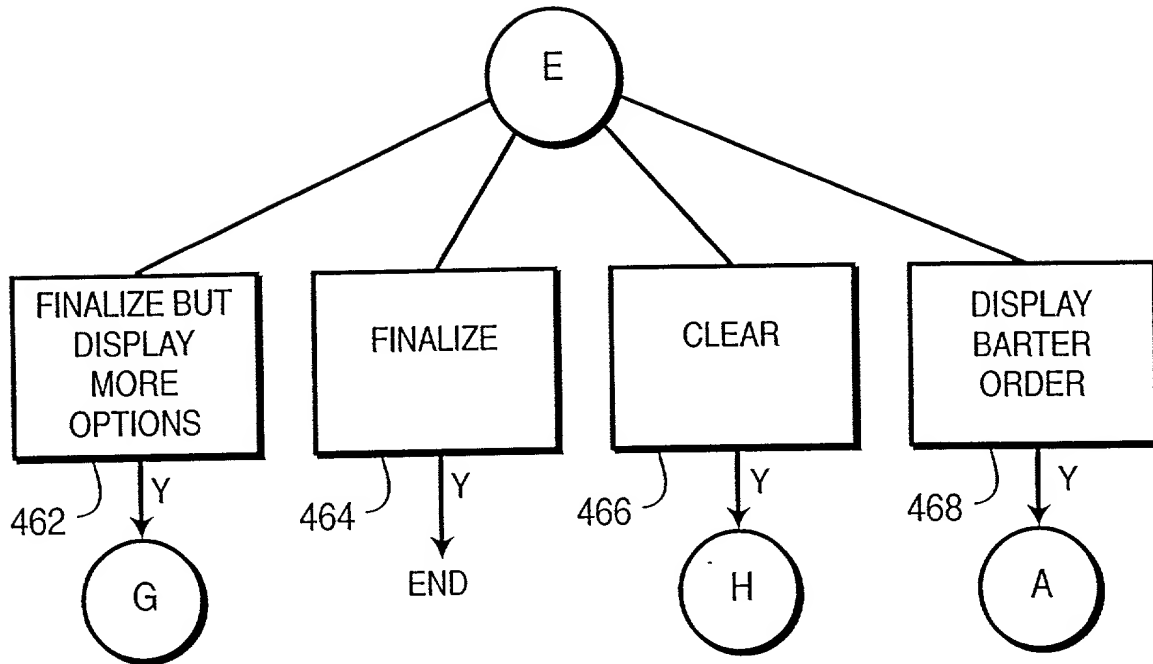
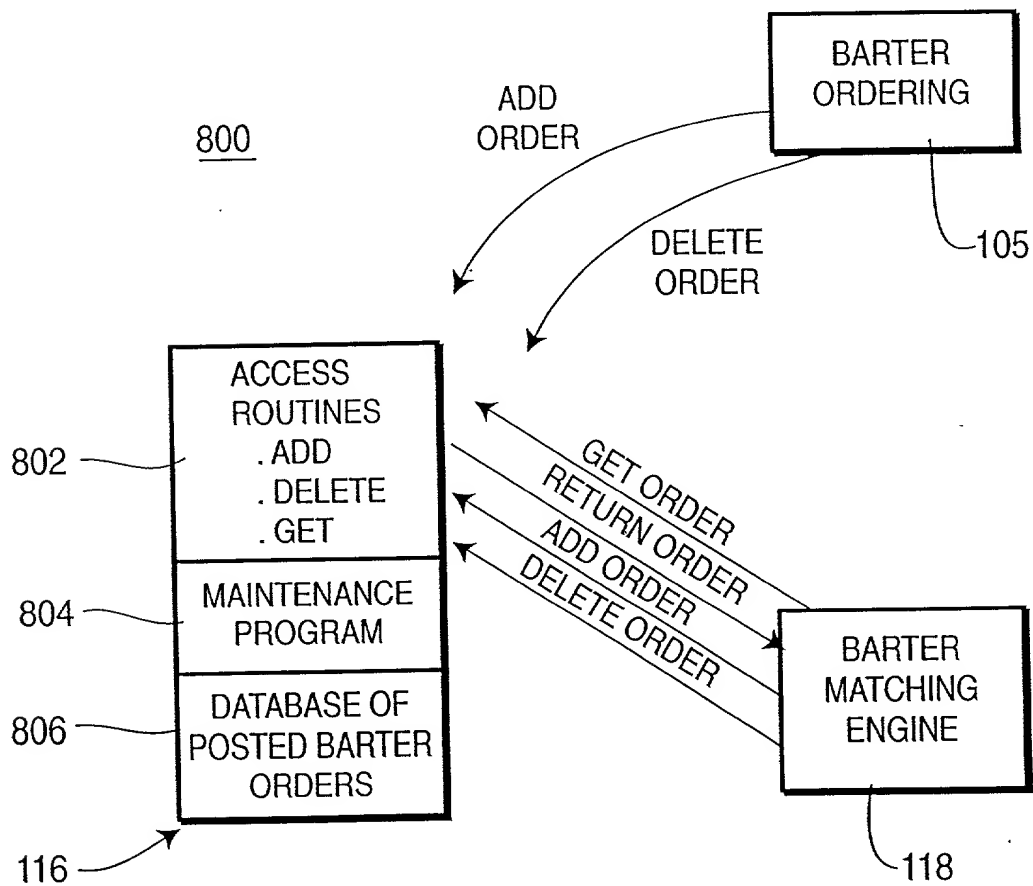


FIG. 4D



**FIG. 4E**



**FIG. 8**

500

BARTER SECURITY

502

ITEMS

DD	▼
DD	600
PFE* 01/05/2001-01/05/2001	100
PUMA	250
DD* 11/10/2000- / /	200
CASH \$	
WEB BARTER \$	

503

501

504

507

ITEMS BY CLASS

STOCK SYMBOL ▼
HIMMELSTEIN ▼
OPTION SYMBOL ▼
CASH XXXX ▼
WEB BARTER DOLLARS ▼

504

QUANTITY

600

505

506

MARKET DATA FOR DD

Current stock trading price as of 02/15/1999 at time 10:45am is \$ 75.90 .

FIG. 5A

500

VALUE

\$

▲▼

per share,  
web barter dollars,  
cash

OR

If stock or Himmelstein Option,

510

☐

barter at current stock trading price

511

\$

+

▲▼

OR

%

+

▲▼

512

☐

plus

514

VALUE

\$

▲▼

OR

516

PERCENT

%

▲▼

518

☐

minus

VALUE

\$

▲▼

OR

517

PERCENT

%

▲▼

519

519

520

→

Total anticipated barter amount: \_\_\_\_\_

Note: Your value price is "X" percentage/dollar amount less/more than (or equal to) stock trading price.

522

change

continue

523

**FIG. 5B**

524 — FEE AMOUNT per share is anticipated to be \_\_\_\_\_, if direct barter (total anticipated fee \_\_\_\_\_);

526 — FEE AMOUNT per share is anticipated to be \_\_\_\_\_, if web barter (total anticipated fee \_\_\_\_\_);

528 → TIMING

day only ▼
day only
good until canceled
fill or kill
immediate or cancel
only view current posts

530 — SPECIAL CONDITIONS (OPTIONAL)

☐ minimum quantity 

600 ▲▼
--------

☐ do not reduce

☐ all or none

☐ deferred settlement date before \_\_\_\_\_ date after \_\_\_\_\_

531 — ☐ other security, if any, to be provided at settlement \_\_\_\_\_

**FIG. 5C**

532 ➤ DIVIDEND REINVESTMENT (FOR NEW STOCK)

- ☐ yes, new stock must have a dividend reinvestment program
- ☐ no, new stock must not have had a dividend reinvestment program
- ☐ accept new stock with or without a dividend reinvestment program

534 — TYPE OF BARTER

- ☐ direct barter only (fee amount anticipated to be \_\_\_\_\_ )
- ☐ if direct barter not available, then barter with web site (fee amount anticipated to be \_\_\_\_\_ )

DESIRED ITEM

Security AET ▼

Industry Health Care ▼

535 —

536 —

- ☐ Himmelstein Option for stock
- 537 ➔ ☐ Stock
- ☐ Cash
- ☐ Web barter dollars

MARKET DATA FOR AET

538 ➔ Current stock trading price as of 02/15/1999 at time 10:45am is \$ 47.50 .

**FIG. 5D**

Value

540

\$

per share

OR

541

☐ if stock or Himmelstein Option, barter at current stock trading price

☐ plus

Value

\$

OR

Percent

%

☐ minus

Value

\$

OR

Percent

%

FIG. 5E

542 Your total barter amount is (anticipated to be) \_\_\_\_\_ for new stock  
Note: your value price is "X" percentage/dollar amount less/more than current  
stock trading price.

544 Note: Ratio of stock to stock trading price divided by new stock to stock trading  
price is "XX.XX"

546 System will re-list order and list terms and conditions and ask if you want to continue  
must click on the continue/agree icon

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

548   549

**FIG. 5F**



# AVAILABLE BARTER ORDERS

NOTE: CLICK ON ORDER # IF CHOOSE TO DO BARTER

IF MORE THAN ONE SELECTION, CLICK ON SEQUENTIAL PREFERENCE

ORDER #	SYMBOL	PRICE	RATIO TO STOCK VALUE # OF		BARTER	PRICE FLUCTUATE WITH SPECIAL		TIMING	DIVIDEND
			TRADING PRICE	RATIO	SHARES	AMOUNT	STOCK TRADING PRICE	CONDITIONS	
1)	1000526	IBM	115	1.00	120	\$13,800.00	YES	NONE	1 YES
2)	9843566	IBM	115 <sup>1/16</sup>	.9995	40	\$4,602.50	NO	MINIMUM 40	2 NO
3)	1043442	IBM	115 <sup>1/16</sup>	.9941	100	\$11,568.75	NO	AFTER 2/01/00 BEFORE INDEFINITE SECURITY AT SETTLEMENT = $\phi$	1 YES

ORDER #	# OF SHARES GIVING	PRICE OF GIVING ITEM	# OF SHARES RECEIVING	PRICE OF RECEIVING ITEM	BARTER AMOUNT	AMOUNT OF BARTER LEFT	TIME REMAINING
1)							
2)							
3)							
4)							
5)							
6)							

- ☐ HOLD IN ESCROW
- ☐ DONATE IT
- ☐ PURCHASE OTHER STOCK

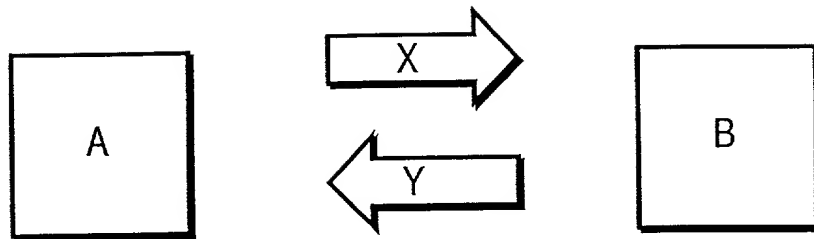
FINALIZE TRANSACTION  
BUT DISPLAY MORE  
BARTER OPTIONS

FINALIZE  
TRANSACTION

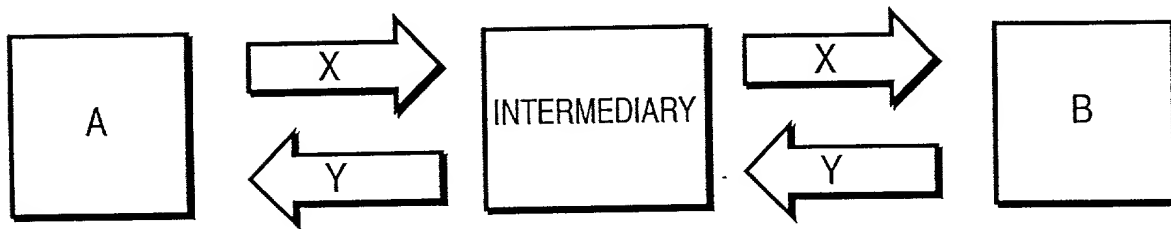
CHANGE BARTER  
ORDER

CLEAR

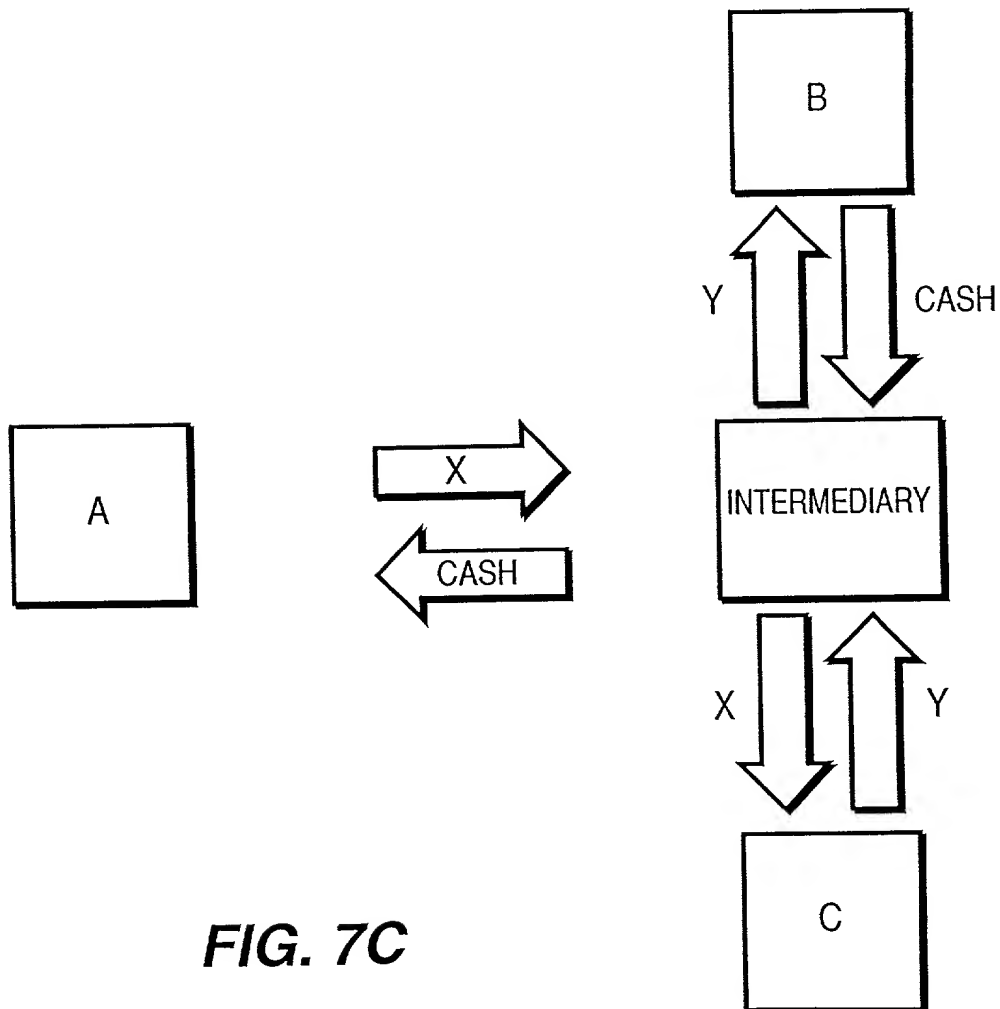
FIG. 6



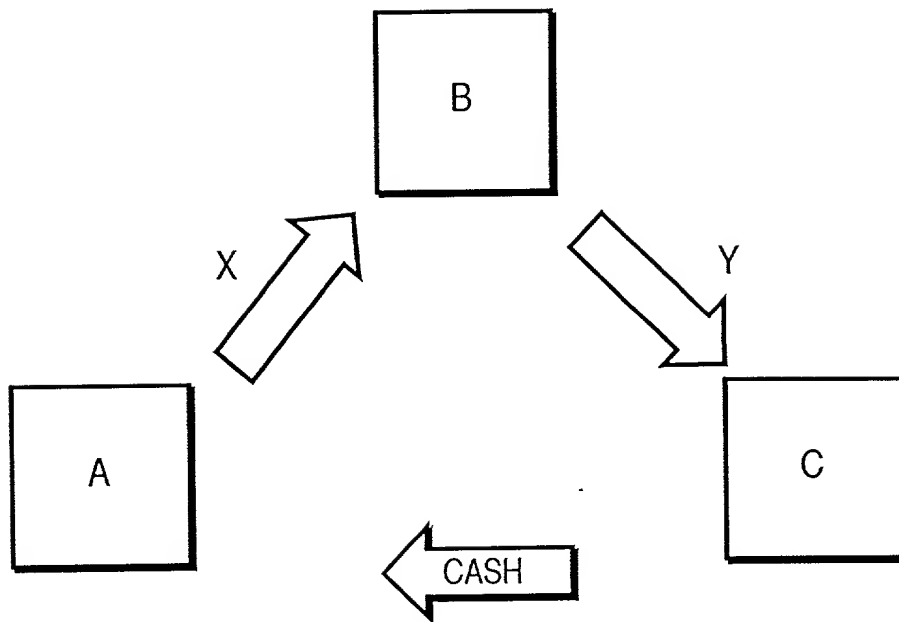
**FIG. 7A**



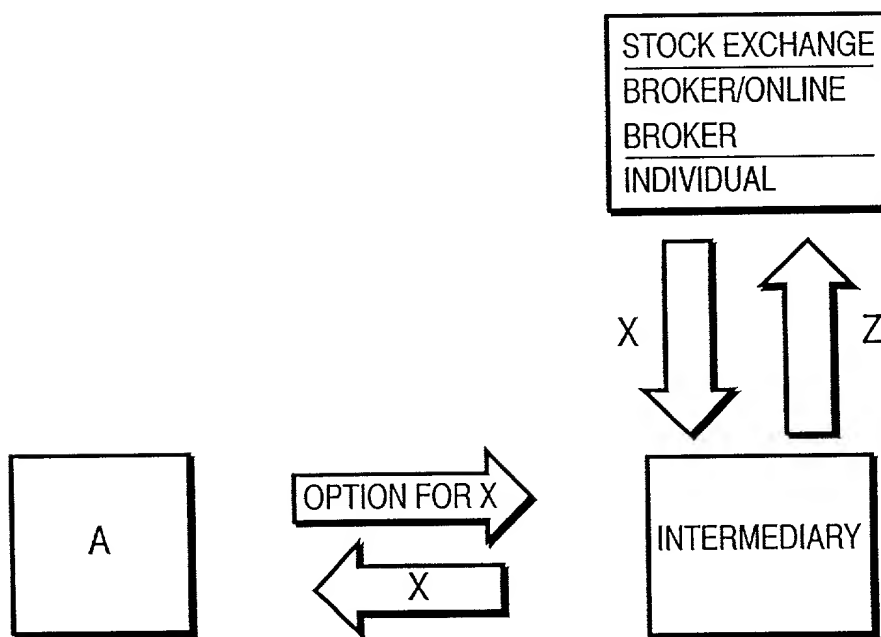
**FIG. 7B**



**FIG. 7C**



**FIG. 7D**



**FIG. 7E**

**FIG. 9A**

**FIG. 9AA** | **FIG. 9AB**

	Class/ Type	Item/ Identification	Amount	Market Value	Bid/Strike Price	Expiration Settlement/Date
1	Stock	Symbol or Name	# Shares	\$	N/A	N/A
2	Currency	US or Foreign	X	US\$	N/A	N/A
3	Bonds	Issuer	X	\$	N/A	N/A
4	Options	Z	N	\$	+/- \$	MMDDYY
5	Government Bond	Treasury Notes, Bonds or Bills	X	\$	+/- \$	N/A
6	Futures	Symbol or Name	Measure- ment* Quality	\$	N/A	MMDDYY
7	Annuities	Issuer	X	\$	N/A	N/A
8	CD's	Issuer	X	\$	N/A	N/A
9	Web Barter Dollar	IOU	X	\$	+/- \$	MMDDYY

Z = Any security

X = Foreign or domestic currency

**FIG. 9AA**

Barter Value	Interest Rate/ Current Yield	Due/Maturity Date	Other	Barter/Settlement Date-Open/Close
\$ or specific relationship to market value	N/A	N/A	Dividend?	MMDDYY
				MMDDYY
US\$ or specific relationship to market value	N/A	N/A	Par Discount Premium	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	N/A	N/A	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% yield rate	MMDDYY	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	N/A	N/A	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Fixed or Variable Interest Rate	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Compound Interest	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Dividend? Par,Discount, Premium Fixed or Variable Interest Compound Interest?	MMDDYY
				MMDDYY

Y = Interest rate or current yield in percentage

N = Quantity of options

**FIG. 9AB**

**FIG. 9B**

**FIG. 9BA | FIG. 9BB**

	Class/ Type	Item/ Identification	Amount	Market Value	Bid/Strike Price	Expiration Settlement/Date
1	Stock	AOL	100 Shares	\$ 10,900.00	N/A	N/A
2	Currency	Canadian \$	5,000CN\$	\$ 3,453.04	N/A	N/A
3	Bonds	Mirage	25,000.00	\$ 24,750.00	N/A	N/A
4	Options	IBM	12 Options	\$ 122,400.00	\$ 102.00	30-Nov-99
5	T-Bills	US Government	\$ 10,000.00	\$ 10,000.00	\$ 101.00	N/A
6	Futures	Gold	10 troy oz	\$ 3,157.50	N/A	30-Nov-99
7	Annuity	TransAmerica	\$ 100,000.00	\$ 100,000.00	N/A	N/A
8	CD's	SunWest Bank	\$ 50,000.00	\$ 50,000.00	N/A	N/A
9	Web Barter Dollar	IOU	\$ 25,000.00	\$ 25,000.00	A	B

A = Could have Bid Strike Price if Web Barter \$ are from Options or Government Bonds + C9 depending on terms and conditions in barter transactions

B = Could have Expiration Date if Web Barter \$ are from Options or Futures depending on terms and conditions in barter transactions

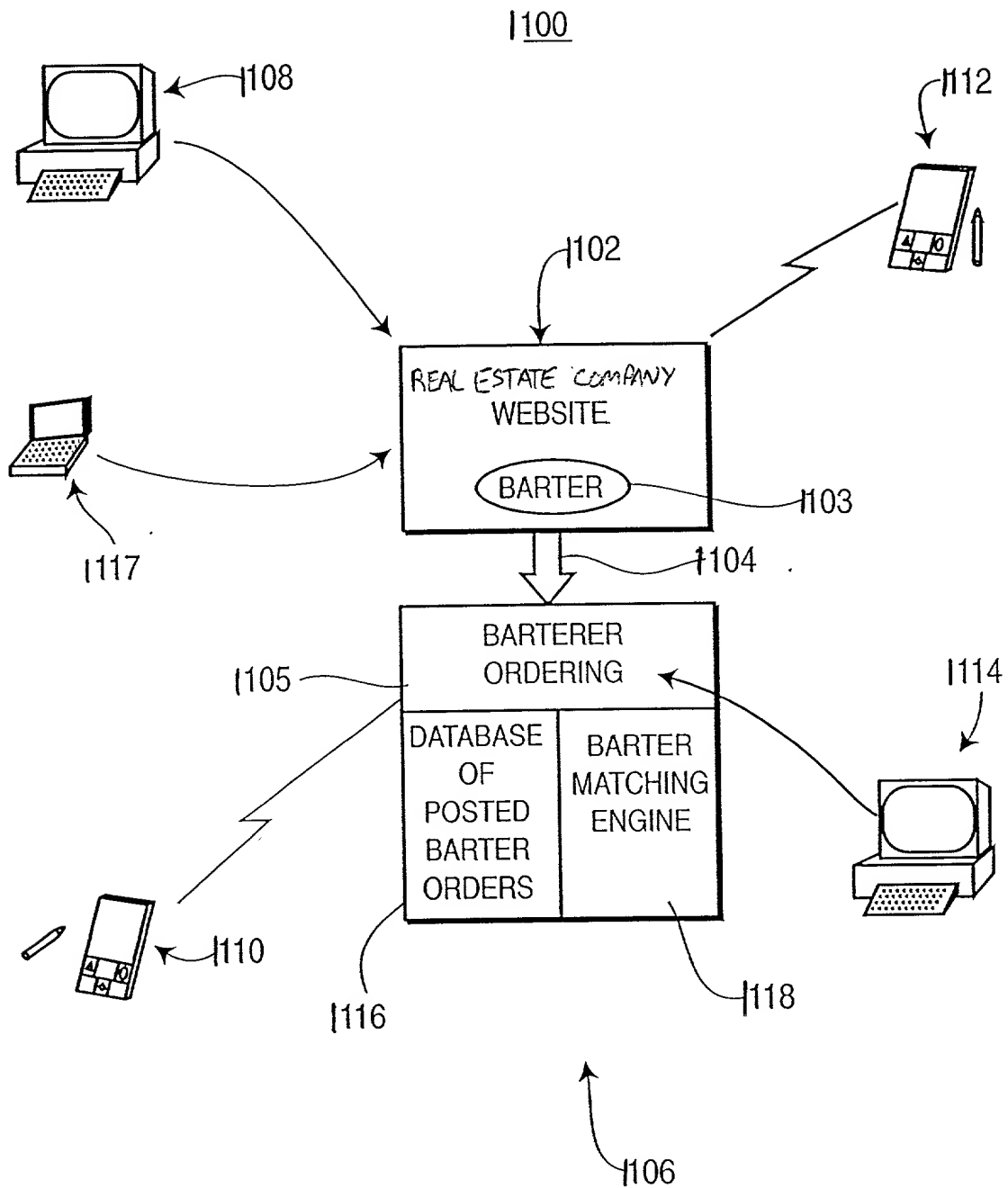
**FIG. 9BA**

Barter Value	Interest Rate/ Current Yield	Due/Maturity Date	Other	Barter/Settlement Date-Open/Close
\$ 10,750.00	N/A	N/A	Dividend?	01-FEB-01/ 29-FEB-01
\$ 3,448.28	N/A	N/A	N/A	02-JAN-00/ 02-JAN-00
\$ 24,900.00	8.50%	1-MAR-15	Par, Discount Premium	24-DEC-03/ 28-DEC-05
\$ 12,840.00	N/A	N/A	N/A	4-OCT-99/ 4-NOV-99
\$ 9,800.00	4.93%	15-Jun-00	N/A	OPEN/ 15-DEC-99
\$ 3,000.00	N/A	N/A	N/A	OPEN/ 31-OCT-59
\$ 105,000.00	10.50%	10-Jun-06	Fixed or Variable Interest Rate	02-JAN-02/ 12-JAN-42
\$ 49,000.00	4.14%	10-May-00	Compound Interest?	12-DEC-99/ 12-DEC-29
\$ 24,500.00	C	D	Dividend? Par,Discount, Premium Fixed or Variable Interest Compound Interest?	OPEN/ 15-JUN-04

C = Could have Yield or Interest Rate if Web Barter \$ are from Bonds, Government Bonds, Annuities or CD's depending on terms and conditions in barter transactions

D = Could have Maturity Date if Web Barter \$ are from Bonds, Government Bonds, Annuities or CD's depending on terms and conditions in barter transactions

**FIG. 9BB**



**FIG. 10**



**FIG. 11A**

**FIG. 11AA** **FIG. 11AB**

	Class/ Type	Item/ Identification	Amount	Market Value	Bid/Strike Price	Expiration Settlement/Date
1	Stock	Symbol or Name	# Shares	\$	N/A	N/A
2	REAL ESTATE	TOWN, STATE ADDRESS	N/A	US\$	N/A	N/A
3	Bonds	Issuer	X	\$	N/A	N/A
4	Options	Z	N	\$	+/- \$	MMDDYY
5	Government Bond	Treasury Notes, Bonds or Bills	X	\$	+/- \$	N/A
6	Futures	Symbol or Name	Measure- ment* Quality	\$	N/A	MMDDYY
7	Annuities	Issuer	X	\$	N/A	N/A
8	CD's	Issuer	X	\$	N/A	N/A
9	Web Barter Dollar	IOU	X	\$	+/- \$	MMDDYY

Z = Any security

X = Foreign or domestic currency

**FIG. 11AA**

Barter Value	Interest Rate/ Current Yield	Due/Maturity Date	Other	Barter/Settlement Date-Open/Close
\$ or specific relationship to market value	N/A	N/A	Dividend?	MMDDYY
				MMDDYY
US\$ or specific relationship to market value	N/A	N/A	SEE FIGURE 11C	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	N/A	N/A	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% yield rate	MMDDYY	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	N/A	N/A	N/A	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Fixed or Variable Interest Rate	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Compound Interest	MMDDYY
				MMDDYY
\$ or specific relationship to market value	Y% interest rate	MMDDYY	Dividend? Par,Discount, Premium Fixed or Variable Interest Compound Interest?	MMDDYY
				MMDDYY

Y = Interest rate or current yield in percentage

N = Quantity of options

**FIG. 11AB**

**FIG. || B**

**FIG. || BA** **FIG. || BB**

	Class/ Type	Item/ Identification	Amount	Market Value	Bid/Strike Price	Expiration Settlement/Date
1	Stock	AOL	100 Shares	\$ 10,900.00	N/A	N/A
2	REAL ESTATE	PALERMO, NJ 7 BRANDEN DR.	N/A	\$800,000	N/A	N/A
3	Bonds	Mirage	25,000.00	\$ 24,750.00	N/A	N/A
4	Options	IBM	12 Options	\$ 122,400.00	\$ 102.00	30-Nov-99
5	T-Bills	US Government	\$ 10,000.00	\$ 10,000.00	\$ 101.00	N/A
6	Futures	Gold	10 troy oz	\$ 3,157.50	N/A	30-Nov-99
7	Annuity	TransAmerica	\$ 100,000.00	\$ 100,000.00	N/A	N/A
8	CD's	SunWest Bank	\$ 50,000.00	\$ 50,000.00	N/A	N/A
9	Web Barter Dollar	IOU	\$ 25,000.00	\$ 25,000.00	A	B

A = Could have Bid Strike Price if Web Barter \$ are from Options or Government Bonds + C9 depending on terms and conditions in barter transactions

B = Could have Expiration Date if Web Barter \$ are from Options or Futures depending on terms and conditions in barter transactions

**FIG. || BA**

Barter Value	Interest Rate/ Current Yield	Due/Maturity Date	Other	Barter/Settlement Date-Open/Close
\$ 10,750.00	N/A	N/A	Dividend?	01-FEB-01/ 29-FEB-01
\$ 812,000	N/A	N/A	SEE FIG. 11 D	02-JAN-01/ 02-JAN-01
\$ 24,900.00	8.50%	1-MAR-15	Par, Discount Premium	24-DEC-03/ 28-DEC-05
\$ 12,840.00	N/A	N/A	N/A	4-OCT-99/ 4-NOV-99
\$ 9,800.00	4.93%	15-Jun-00	N/A	OPEN/ 15-DEC-99
\$ 3,000.00	N/A	N/A	N/A	OPEN/ 31-OCT-59
\$ 105,000.00	10.50%	10-Jun-06	Fixed or Variable Interest Rate	02-JAN-02/ 12-JAN-42
\$ 49,000.00	4.14%	10-May-00	Compound Interest?	12-DEC-99/ 12-DEC-29
\$ 24,500.00	C	D	Dividend? Par,Discount, Premium Fixed or Variable Interest Compound Interest?	OPEN/ 15-JUN-04

C = Could have Yield or Interest Rate if Web Barter \$ are from Bonds, Government Bonds, Annuities or CD's depending on terms and conditions in barter transactions

D = Could have Maturity Date if Web Barter \$ are from Bonds, Government Bonds, Annuities or CD's depending on terms and conditions in barter transactions

**FIG. 11 BB**

PARAMETERS	Y/N	REQ OR OPTIONAL	RANGE/NUMBER	OTHER
BEDROOMS	Y	R	5	
BATHROOMS	Y	R	3	
GARAGE -				
- ATTACHED	Y	R	3	
- DETACHED	N			
DRIVEWAY				
- GRAVEL				
- ASPHALT	Y	R		
- PAVING STONE				
BASEMENT				
- HALF - UNFINISHED	N			
- FULL UNFINISHED	N			
- HALF FINISHED	N			
- FULL FINISHED	Y	O		
HEATING				
- GAS	Y	O		LENNOX
- OIL	N			
- HOT WATER	N			
- FORCED AIR	Y	O		
SECURITY SYSTEM	Y	O		
WATER				
- WELL	N			
- PUBLIC	Y	O		
SEWER				
- SEPTIC	N			
- PUBLIC	Y	O		
POOL	Y	O		
AIR CONDITIONING	Y	R		
FIREPLACE	Y	R		
FLOORING				
- TILE	N			
- VINYL	N			
- W/W CARPET	Y	O		
KITCHEN	Y	R		
SIING				
- BRICK	Y	O		
- WOODS				
- VINYL				
LOT SIZE	Y	R	> 20,000	
TOTAL ROOMS	Y	R	> 9	
OTHER				

FIG 11C

FIG 12A

1202

TRANSACTION NUMBER	I-HAVE			WANT			EQUITY IN/OUT (+/-)
	TYPE	STATE	VALUE	TYPE	STATE	VALUE	
8433	SFD	NJ	\$800,000	SFD	PA	\$1,100,000	+\$300,000
7812	COMMER	NJ	\$400,000	SFD	NJ	\$350,000	-\$50,000
1053	MFD	PA	\$250,000	SFD	NJ	\$305,000	+\$10,000
2174	SFD	NJ	\$300,000	SFD	NJ	\$50,000	+\$200,000
3001	SFD	CA	\$1,300,000	SFD	NJ	\$820,000	-\$500,000
5717	SFD	FL	\$150,000	SFD	PA	\$300,000	+\$200,000
0015	COMMER	NY	\$50,000	COMMER	NJ	\$450,000	+\$150,000
9015	COMMER	NJ	\$963,000	STK	IBM	\$96,300	-3,000
8753	COMMER	PA	\$821,000	COMMER	PA	\$800,000	-20,000
2121	SFD	NJ	\$335,000	COMMER	NJ	\$500,000	-150,000

1204

1206

1208

1210

1212

1214

1216

1218

1220

1222

BARTER ORDER

I-HAVE				WANT				EQUITY IN/OUT
TYPE	STATE	ASR	FRG	TYPE	STATE	VALUE	BDRM	
SFD	NJ	298,000	5	SFD	NJ	383,000	4	+\$25,000

1226

1228

1230

1232

1234

1236

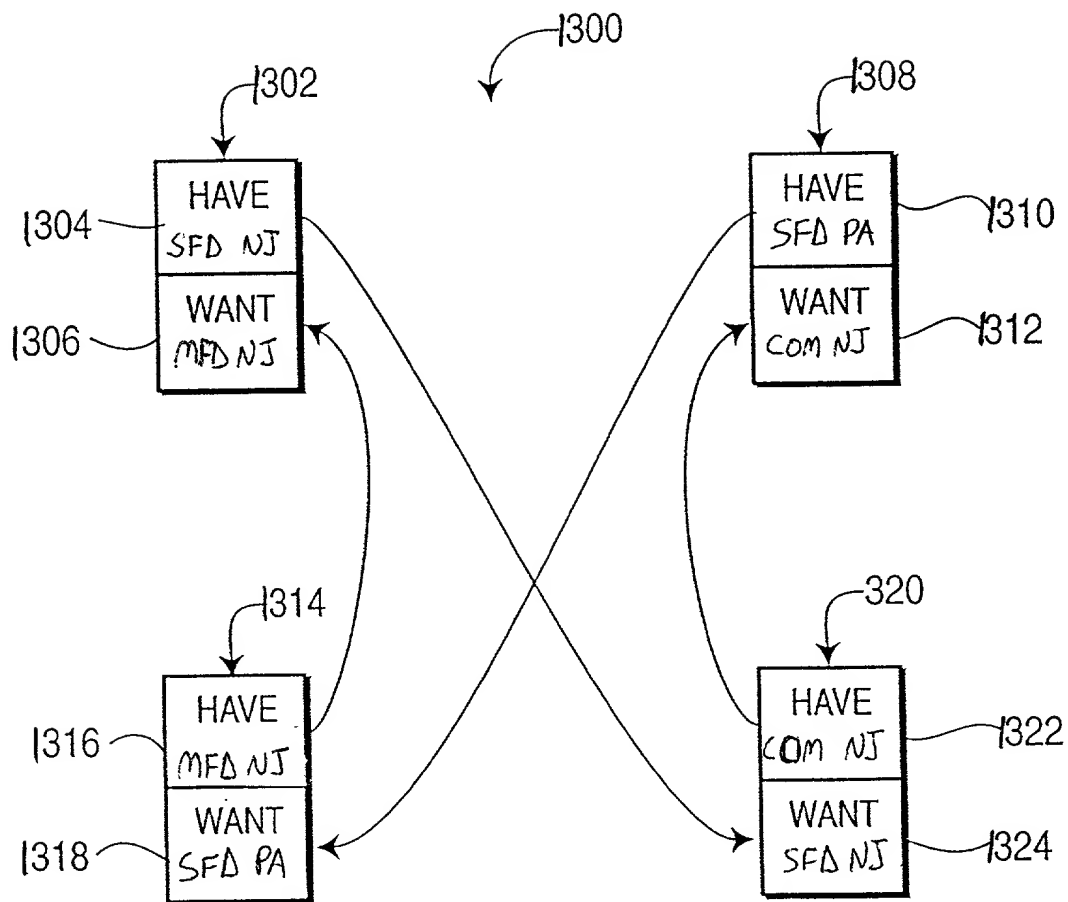
1238

1240

1242

1244

FIG 12B



**FIG. 13**



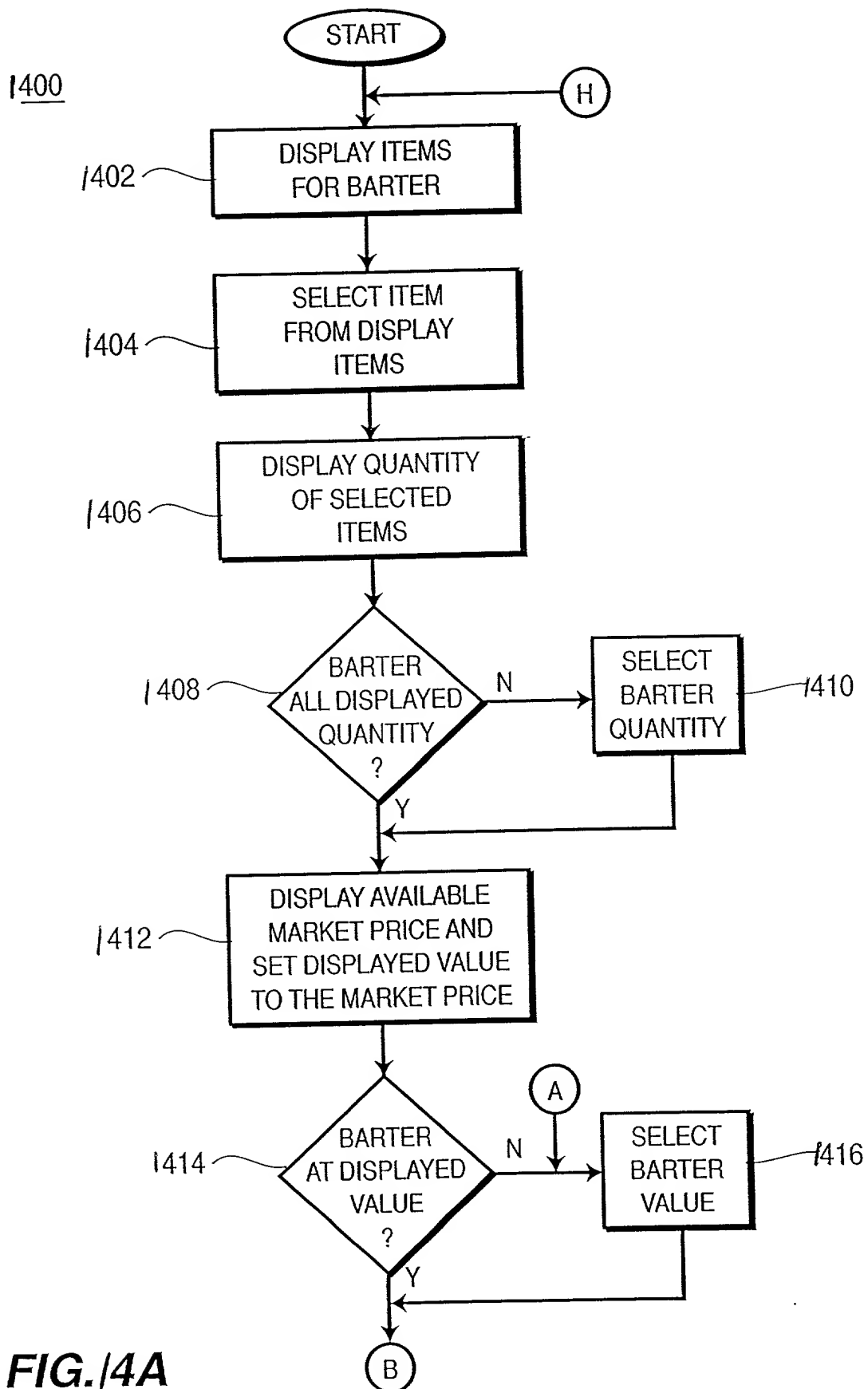


FIG. 4A



1400

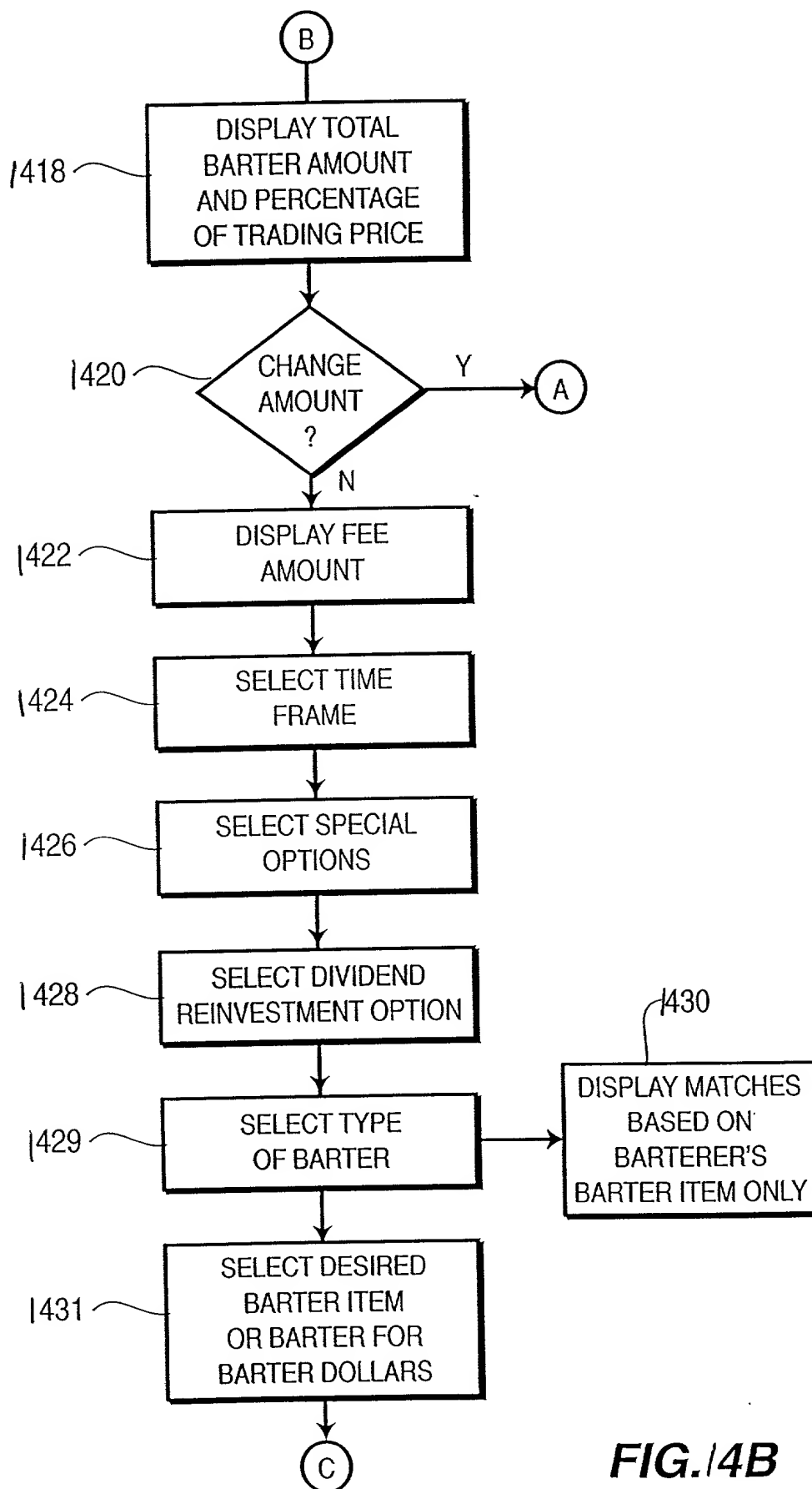


FIG. 14B

1400

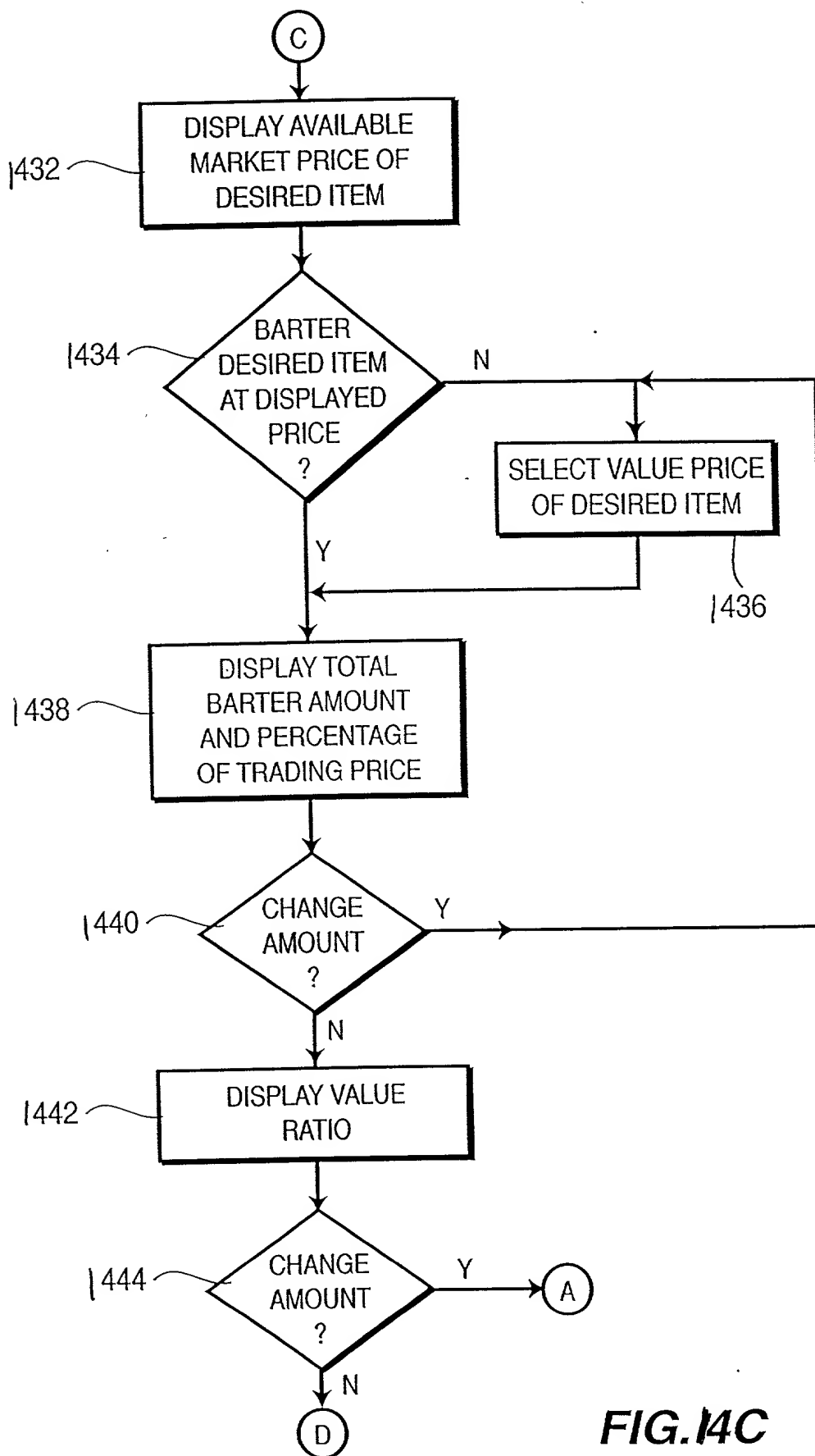


FIG. 14C

1400

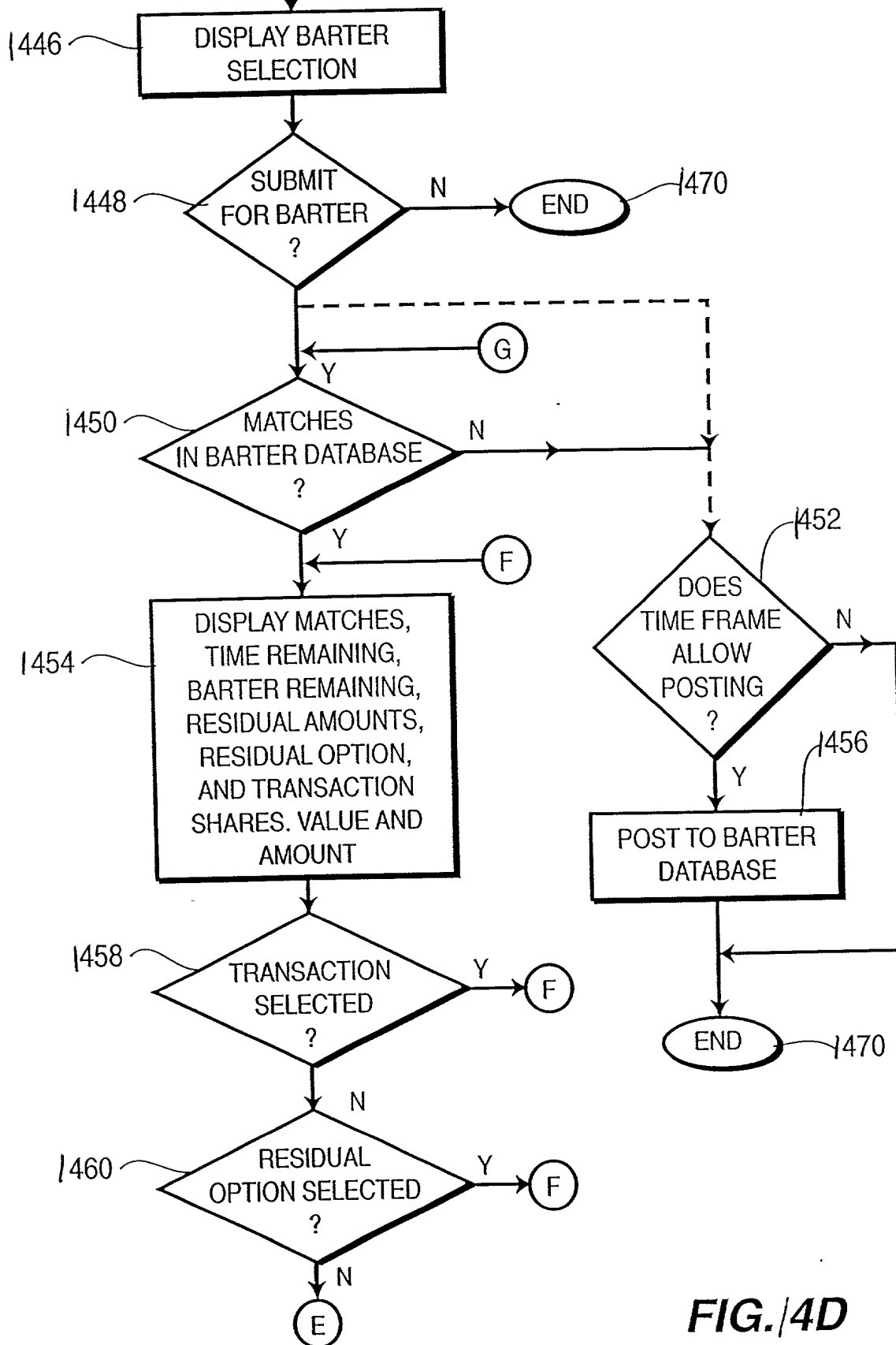
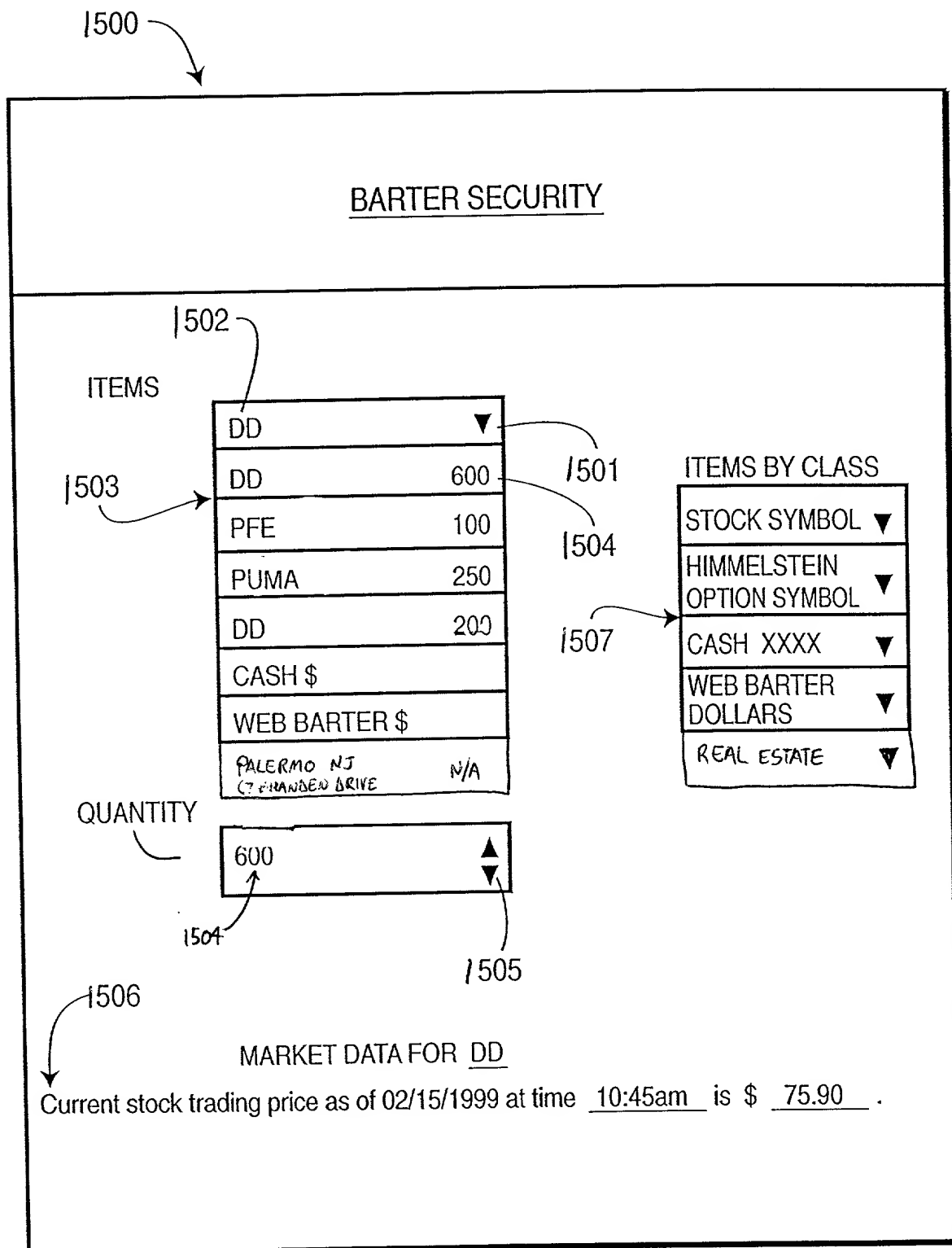


FIG./4D



**FIG. 15A**

1500

VALUE

\$

▲▼

asking price  
per share,  
web barter dollars,  
cash

OR

If stock or Himmelstein Option,

1510

☐ barter at current stock trading price

1511

\$

±

OR

%

±

1512

☐ plus

1514

VALUE

\$

▲▼

OR

1516

PERCENT

%

▲▼

1518

☐ minus

VALUE

\$

▲▼

OR

1517

PERCENT

1519

%

▲▼

1520

Total anticipated barter amount: \_\_\_\_\_

Note: Your value price is "X" percentage/dollar amount less/more than (or equal to) stock trading price.

1522

change

continue

1523

**FIG. 15B**

524 — FEE AMOUNT per share is anticipated to be \_\_\_\_\_, if direct barter (total anticipated fee \_\_\_\_\_);

526 — FEE AMOUNT per share is anticipated to be \_\_\_\_\_, if web barter (total anticipated fee \_\_\_\_\_);

528 → TIMING

day only	▼
day only	
good until canceled	
fill or kill	
immediate or cancel	
only view current posts	
specific date	

530 — SPECIAL CONDITIONS (OPTIONAL)

- ☐ minimum quantity
- ☐ do not reduce
- ☐ all or none
- ☐ deferred settlement date before \_\_\_\_\_ date after \_\_\_\_\_

531 — ☐ other security, if any, to be provided at settlement \_\_\_\_\_

FIG. 5C

1532 ➤ DIVIDEND REINVESTMENT (FOR NEW STOCK)

- ☐ yes, new stock must have a dividend reinvestment program
- ☐ no, new stock must not have had a dividend reinvestment program
- ☐ accept new stock with or without a dividend reinvestment program

1534 — TYPE OF BARTER

- ☐ direct barter only (fee amount anticipated to be \_\_\_\_\_)
- ☐ if direct barter not available, then barter with web site (fee amount anticipated to be \_\_\_\_\_)

DESIRED ITEM

Security AET ▼

Industry Health Care ▼

1535 —

- ☐ Real Estate
- ☐ Himmelstein Option for stock
- 1537 ➔ ☐ Stock
- ☐ Cash
- ☐ Web barter dollars

1536 —

MARKET DATA FOR AET

1538 ➔ Current stock trading price as of 02/15/1999 at time 10:45am is \$ 47.50 .

**FIG. 15D**

Value

1540

\$

per share

OR

1541

☐ if stock or Himmelstein Option, barter at current stock trading price

☐ plus

Value

\$

OR

Percent

%

☐ minus

Value

\$

OR

Percent

%

FIG.15E



1542 Your total barter amount is (anticipated to be) \_\_\_\_\_ for new stock  
Note: your value price is "X" percentage/dollar amount less/more than current  
stock trading price.

1544 Note: Ratio of item to item trading price divided by new item to item trading  
price is "XX.XX"

1546 System will re-list order and list terms and conditions and ask if you want to continue  
must click on the continue/agree icon

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

1548   1549

FIG. 15F

# Available Barter Real Estate Sale or rental listings

Transaction # / MILES #

174596 Barter

1566

Asking Price

319,000

1562

Sale / Rent

SALE

/

1564

Address

7 GRADEN DR

MARLBOROUGH, N.J. USA

1566

Virtual tour

1568

Make offer

1570

TIME REMAINING  
DAYS 5 HOURS 16 MINUTES 27

1631

CLEAR

1632

CHANGE BARTER ORDER

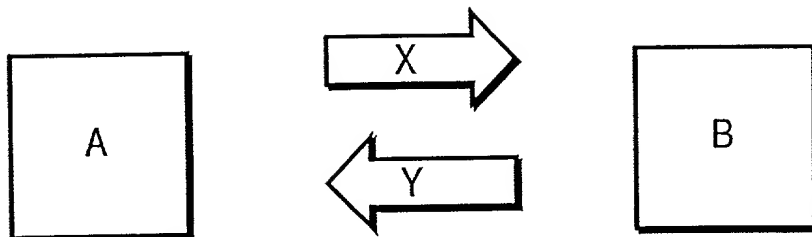
1633

FINALIZE TRANSACTION

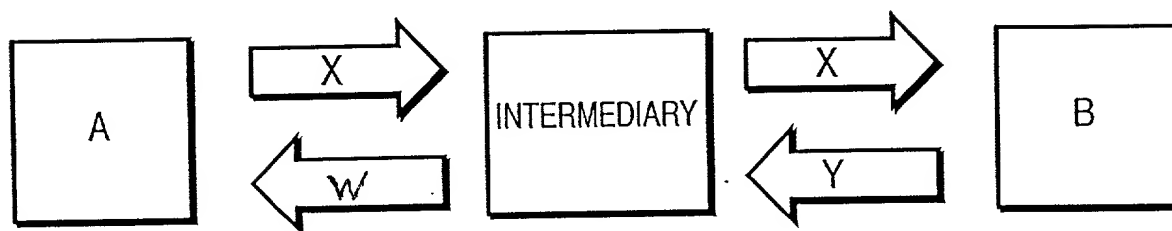
1634

FINALIZE TRANSACTION BUT DISPLAY MORE BARTER OPTIONS

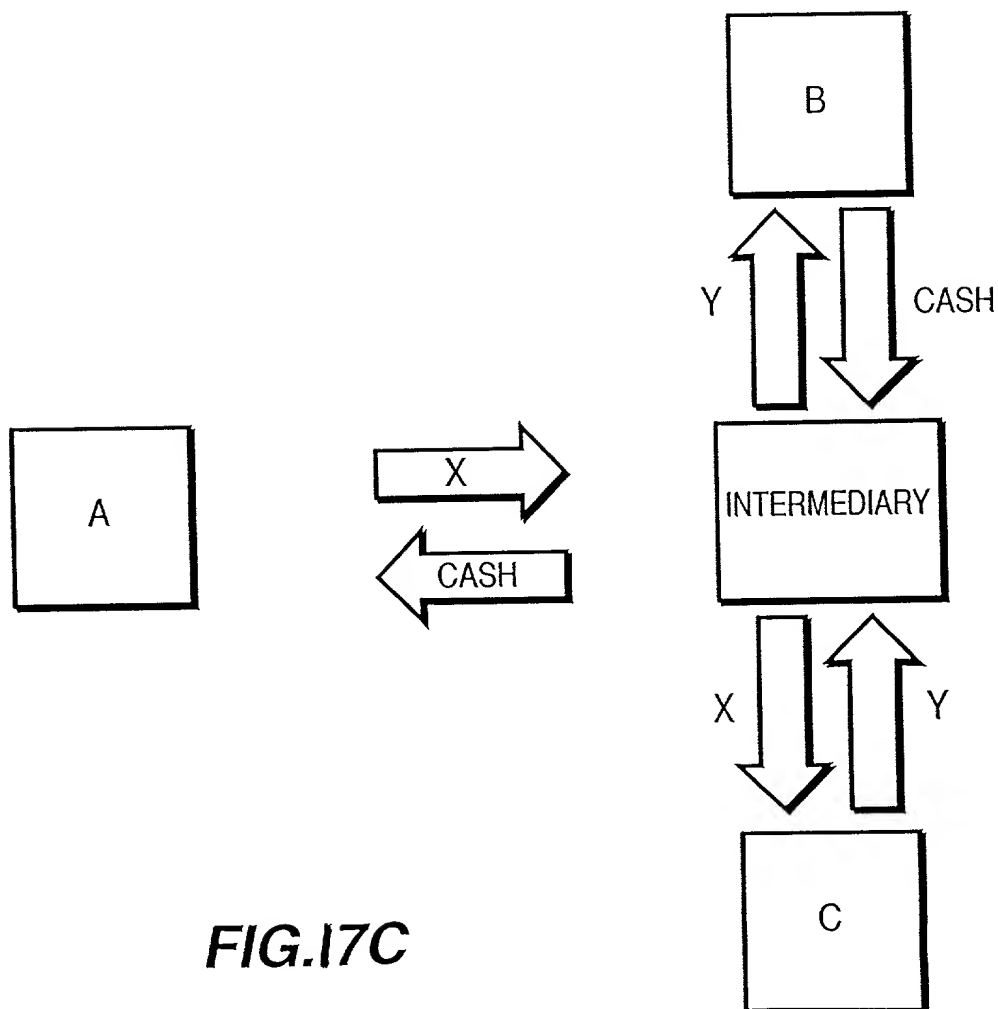
FIG. 16



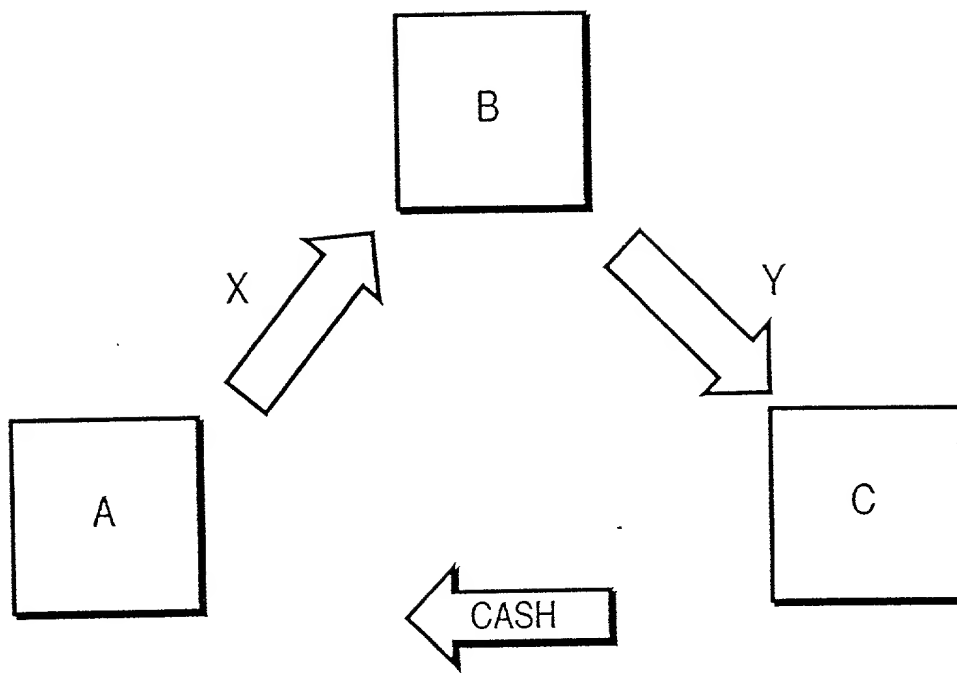
**FIG. 17A**



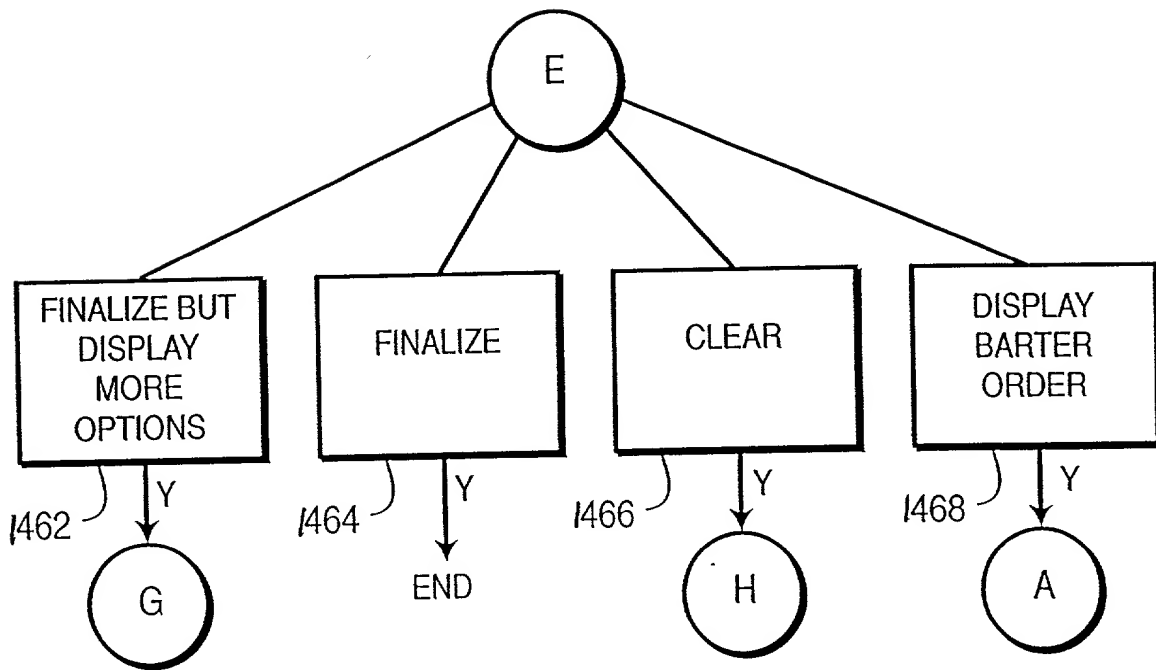
**FIG. 17B**



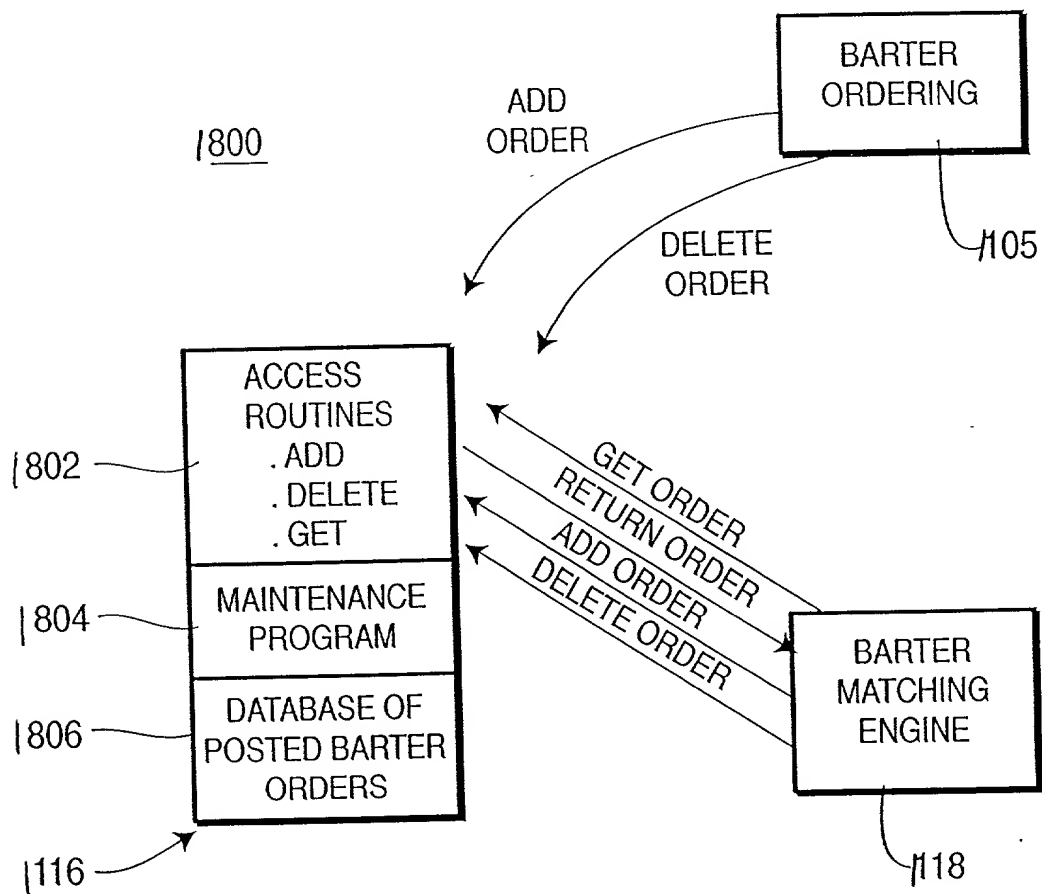
**FIG. 17C**



**FIG.17D**



**FIG. 14E**



**FIG. 18**

Please type a plus sign (+) inside this box → ☐

PTO/SB/01 (12-97)

Approved for use through 9/30/00. OMB 0651-0032  
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION</b> <b>(37 CFR 1.63)</b>  <input checked="" type="checkbox"/> Declaration Submitted with Initial Filing    OR <input type="checkbox"/> Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)	<b>Attorney Docket Number</b>	HIM-PT009.1
	<b>First Named Inventor</b>	Richard B. Himmelstein
	<b>COMPLETE IF KNOWN</b>	
	<b>Application Number</b>	
	<b>Filing Date</b>	
	<b>Group Art Unit</b>	
	<b>Examiner Name</b>	

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

ELECTRONIC REAL ESTATE BARTERING SYSTEM

the specification of which

(Title of the Invention)

☒ is attached hereto  
OR☐ was filed on (MM/DD/YYYY)  as United States Application Number or PCT InternationalApplication Number  and was amended on (MM/DD/YYYY)  (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or 365(b) of any foreign application(s) for patent or inventor's certificate, or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

I hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application(s) listed below.

Application Number(s)	Filing Date (MM/DD/YYYY)	<input type="checkbox"/> Additional provisional application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.
60/154,840	09/20/99	

[Page 1 of 2]

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

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Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## DECLARATION — Utility or Design Patent Application

I hereby claim the benefit under 35 U.S.C. 120 of any United States application(s), or 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. 112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application or PCT Parent Number	Parent Filing Date (MM/DD/YYYY)	Parent Patent Number (if applicable)
09/454,035	12/03/99	

☐ Additional U.S. or PCT international application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

As a named inventor, I hereby appoint the following registered practitioner(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

☒ Customer Number **3624** → Place Customer Number Bar Code Label here  
OR  
☐ Registered practitioner(s) name/registration number listed below

Name	Registration Number	Name	Registration Number
Namely, the Attorneys of Volpe and Koenig, P.C.			

☐ Additional registered practitioner(s) named on supplemental Registered Practitioner Information sheet PTO/SB/02C attached hereto.

Direct all correspondence to: ☒ Customer Number **3624** OR ☐ Correspondence address below

Name			
Address			
Address			
City	State	ZIP	
Country	Telephone	Fax	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Name of Sole or First Inventor: Richard B. Himmelstein ☐ A petition has been filed for this unsigned inventor

Given Name (first and middle (if any))		Family Name or Surname	
Richard B.		Himmelstein	
Inventor's Signature	<i>Richard B. Himmelstein</i>		Date
Residence: City	Palermo	State	NJ
		Country	USA
Post Office Address	7 Braden Drive		
Post Office Address			
City	Palermo	State	NJ
		ZIP	08223
		Country	USA

☐ Additional inventors are being named on the supplemental Additional Inventor(s) sheet(s) PTO/SB/02A attached hereto